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(54) Title: HUMAN GENES AND GENE EXPRESSION PRODUCTS V

(57) Abstract

This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostic and therapeutic agents employing such novel human polynucleotides, their corresponding genes or gene products, e.g., these genes and proteins, including probes, antisense constructs, and antibodies.

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HUMAN GENES AND GENE EXPRESSION PRODUCTS V

Field of the Invention

The present invention relates to polynucleotides of human origin and the encoded gene products.

Background of the Invention

Identification of novel polynucleotides, particularly those that encode an expressed gene product, is important in the advancement of drug discovery, diagnostic technologies, and the understanding of the progression and nature of complex diseases such as cancer. Identification of genes expressed in different cell types isolated from sources that differ in disease state or stage, developmental stage, exposure to various environmental factors, the tissue of origin, the species from which the tissue was isolated, and the like is key to identifying the genetic factors that are responsible for the phenotypes associated with these various differences.

This invention provides novel human polynucleotides, the polypeptides encoded by these polynucleotides, and the genes and proteins corresponding to these novel polynucleotides.

Summary of the Invention

This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostics and therapeutics comprising such novel human polynucleotides, their corresponding genes or gene products, including probes, antisense nucleotides, and antibodies. The polynucleotides of the invention correspond to a polynucleotide comprising the sequence information of at least one of SEQ ID NOS:1-2707.

Various aspects and embodiments of the invention will be readily apparent to the ordinarily skilled artisan upon reading the description provided herein.

Detailed Description of the Invention

The invention relates to polynucleotides comprising the disclosed nucleotide sequences, to full length cDNA, mRNA genomic sequences, and genes corresponding to these sequences and degenerate variants thereof, and to polypeptides encoded by the polynucleotides of the invention and polypeptide variants. The following detailed description describes the polynucleotide compositions encompassed by the invention, methods for obtaining cDNA or genomic DNA encoding a full-length gene product, expression of these polynucleotides and genes, identification of structural motifs of the polynucleotides and genes, identification of the function of a gene product encoded by a gene corresponding to a polynucleotide of the invention, use of the provided polynucleotides as probes and in mapping and in tissue profiling, use of the corresponding polypeptides and other gene

products to raise antibodies, and use of the polynucleotides and their encoded gene products for therapeutic and diagnostic purposes.

Polynucleotide Compositions

The scope of the invention with respect to polynucleotide compositions includes, but is not necessarily limited to, polynucleotides having a sequence set forth in any one of SEQ ID NOS:1-2707; polynucleotides obtained from the biological materials described herein or other biological sources (particularly human sources) by hybridization under stringent conditions (particularly conditions of high stringency); genes corresponding to the provided polynucleotides; variants of the provided polynucleotides and their corresponding genes, particularly those variants that retain a biological activity of the encoded gene product (*e.g.*, a biological activity ascribed to a gene product corresponding to the provided polynucleotides as a result of the assignment of the gene product to a protein family(ies) and/or identification of a functional domain present in the gene product). Other nucleic acid compositions contemplated by and within the scope of the present invention will be readily apparent to one of ordinary skill in the art when provided with the disclosure here. "Polynucleotide" and "nucleic acid" as used herein with reference to nucleic acids of the composition is not intended to be limiting as to the length or structure of the nucleic acid unless specifically indicted.

The invention features polynucleotides that are expressed in human tissue, specifically human colon, breast, and/or lung tissue. Novel nucleic acid compositions of the invention of particular interest comprise a sequence set forth in any one of SEQ ID NOS:1-2707 or an identifying sequence thereof. An "identifying sequence" is a contiguous sequence of residues at least about 10 nt to about 20 nt in length, usually at least about 50 nt to about 100 nt in length, that uniquely identifies a polynucleotide sequence, *e.g.*, exhibits less than 90%, usually less than about 80% to about 85% sequence identity to any contiguous nucleotide sequence of more than about 20 nt. Thus, the subject novel nucleic acid compositions include full length cDNAs or mRNAs that encompass an identifying sequence of contiguous nucleotides from any one of SEQ ID NOS: 1-2707.

The polynucleotides of the invention also include polynucleotides having sequence similarity or sequence identity. Nucleic acids having sequence similarity are detected by hybridization under low stringency conditions, for example, at 50°C and 10XSSC (0.9 M saline/0.09 M sodium citrate) and remain bound when subjected to washing at 55°C in 1XSSC. Sequence identity can be determined by hybridization under stringent conditions, for example, at 50°C or higher and 0.1XSSC (9 mM saline/0.9 mM sodium citrate). Hybridization methods and conditions are well known in the art, see, *e.g.*, USPN 5,707,829. Nucleic acids that are substantially identical to the provided polynucleotide sequences, *e.g.* allelic variants, genetically altered versions of the gene,

etc., bind to the provided polynucleotide sequences (SEQ ID NOS:1-2707) under stringent hybridization conditions. By using probes, particularly labeled probes of DNA sequences, one can isolate homologous or related genes. The source of homologous genes can be any species, *e.g.* primate species, particularly human; rodents, such as rats and mice; canines, felines, bovines, ovines, equines, yeast, nematodes, *etc.*

Preferably, hybridization is performed using at least 15 contiguous nucleotides (nt) of at least one of SEQ ID NOS:1-2707. That is, when at least 15 contiguous nt of one of the disclosed SEQ ID NOS. is used as a probe, the probe will preferentially hybridize with a nucleic acid comprising the complementary sequence, allowing the identification and retrieval of the nucleic acids that uniquely hybridize to the selected probe. Probes from more than one SEQ ID NO. can hybridize with the same nucleic acid if the cDNA from which they were derived corresponds to one mRNA. Probes of more than 15 nt can be used, e.g., probes of from about 18 nt to about 100 nt, but 15 nt represents sufficient sequence for unique identification.

The polynucleotides of the invention also include naturally occurring variants of the nucleotide sequences (*e.g.*, degenerate variants, allelic variants, *etc.*). Variants of the polynucleotides of the invention are identified by hybridization of putative variants with nucleotide sequences disclosed herein, preferably by hybridization under stringent conditions. For example, by using appropriate wash conditions, variants of the polynucleotides of the invention can be identified where the allelic variant exhibits at most about 25-30% base pair (bp) mismatches relative to the selected polynucleotide probe. In general, allelic variants contain 15-25% bp mismatches, and can contain as little as even 5-15%, or 2-5%, or 1-2% bp mismatches, as well as a single bp mismatch.

The invention also encompasses homologs corresponding to the polynucleotides of SEQ ID NOS:1-2707, where the source of homologous genes can be any mammalian species, *e.g.*, primate species, particularly human; rodents, such as rats; canines, felines, bovines, ovines, equines, yeast, nematodes, etc. Between mammalian species, *e.g.*, human and mouse, homologs generally have substantial sequence similarity, *e.g.*, at least 75% sequence identity, usually at least 90%, more usually at least 95% between nucleotide sequences. Sequence similarity is calculated based on a reference sequence, which may be a subset of a larger sequence, such as a conserved motif, coding region, flanking region, *etc.* A reference sequence will usually be at least about 18 contiguous nt long, more usually at least about 30 nt long, and may extend to the complete sequence that is being compared. Algorithms for sequence analysis are known in the art, such as gapped BLAST, described in Altschul, et al. *Nucleic Acids Res.* (1997) 25:3389-3402.

In general, variants of the invention have a sequence identity greater than at least about 65%, preferably at least about 75%, more preferably at least about 85%, and can be greater than at least about 90% or more as determined by the Smith-Waterman homology search algorithm as

implemented in MPSRCH program (Oxford Molecular). For the purposes of this invention, a preferred method of calculating percent identity is the Smith-Waterman algorithm, using the following. Global DNA sequence identity must be greater than 65% as determined by the Smith-Waterman homology search algorithm as implemented in MPSRCH program (Oxford Molecular) using an affine gap search with the following search parameters: gap open penalty, 12; and gap extension penalty, 1.

The subject nucleic acids can be cDNAs or genomic DNAs, as well as fragments thereof, particularly fragments that encode a biologically active gene product and/or are useful in the methods disclosed herein (*e.g.*, in diagnosis, as a unique identifier of a differentially expressed gene of interest, *etc.*). The term "cDNA" as used herein is intended to include all nucleic acids that share the arrangement of sequence elements found in native mature mRNA species, where sequence elements are exons and 3' and 5' non-coding regions. Normally mRNA species have contiguous exons, with the intervening introns, when present, being removed by nuclear RNA splicing, to create a continuous open reading frame encoding a polypeptide of the invention.

A genomic sequence of interest comprises the nucleic acid present between the initiation codon and the stop codon, as defined in the listed sequences, including all of the introns that are normally present in a native chromosome. It can further include the 3' and 5' untranslated regions found in the mature mRNA. It can further include specific transcriptional and translational regulatory sequences, such as promoters, enhancers, *etc.*, including about 1 kb, but possibly more, of flanking genomic DNA at either the 5' and 3' end of the transcribed region. The genomic DNA can be isolated as a fragment of 100 kbp or smaller; and substantially free of flanking chromosomal sequence. The genomic DNA flanking the coding region, either 3' and 5', or internal regulatory sequences as sometimes found in introns, contains sequences required for proper tissue, stage-specific, or disease-state specific expression.

The nucleic acid compositions of the subject invention can encode all or a part of the subject polypeptides. Double or single stranded fragments can be obtained from the DNA sequence by chemically synthesizing oligonucleotides in accordance with conventional methods, by restriction enzyme digestion, by PCR amplification, *etc.* Isolated polynucleotides and polynucleotide fragments of the invention comprise at least about 10, about 15, about 20, about 35, about 50, about 100, about 150 to about 200, about 250 to about 300, or about 350 contiguous nt selected from the polynucleotide sequences as shown in SEQ ID NOS:1-2707. For the most part, fragments will be of at least 15 nt, usually at least 18 nt or 25 nt, and up to at least about 50 contiguous nt in length or more. In a preferred embodiment, the polynucleotide molecules comprise a contiguous sequence of at least 12 nt selected from the group consisting of the polynucleotides shown in SEQ ID NOS:1-2707.

Probes specific to the polynucleotides of the invention can be generated using the polynucleotide sequences disclosed in SEQ ID NOS:1-2707. The probes are preferably at least about a 12, 15, 16, 18, 20, 22, 24, or 25 nt fragment of a corresponding contiguous sequence of SEQ ID NOS:1-2707, and can be less than 2, 1, 0.5, 0.1, or 0.05 kb in length. The probes can be synthesized chemically or can be generated from longer polynucleotides using restriction enzymes. The probes can be labeled, for example, with a radioactive, biotinylated, or fluorescent tag. Preferably, probes are designed based upon an identifying sequence of a polynucleotide of one of SEQ ID NOS:1-2707 . More preferably, probes are designed based on a contiguous sequence of one of the subject polynucleotides that remain unmasked following application of a masking program for masking low complexity (*e.g.*, XBLAST) to the sequence., *i.e.*, one would select an unmasked region, as indicated by the polynucleotides outside the poly-n stretches of the masked sequence produced by the masking program.

The polynucleotides of the subject invention are isolated and obtained in substantial purity, generally as other than an intact chromosome. Usually, the polynucleotides, either as DNA or RNA, will be obtained substantially free of other naturally-occurring nucleic acid sequences, generally being at least about 50%, usually at least about 90% pure and are typically "recombinant", *e.g.*, flanked by one or more nucleotides with which it is not normally associated on a naturally occurring chromosome.

The polynucleotides of the invention can be provided as a linear molecule or within a circular molecule, and can be provided within autonomously replicating molecules (vectors) or within molecules without replication sequences. Expression of the polynucleotides can be regulated by their own or by other regulatory sequences known in the art. The polynucleotides of the invention can be introduced into suitable host cells using a variety of techniques available in the art, such as transferrin polycation-mediated DNA transfer, transfection with naked or encapsulated nucleic acids, liposome-mediated DNA transfer, intracellular transportation of DNA-coated latex beads, protoplast fusion, viral infection, electroporation, gene gun, calcium phosphate-mediated transfection, and the like.

The subject nucleic acid compositions can be used to, for example, produce polypeptides, as probes for the detection of mRNA of the invention in biological samples (*e.g.*, extracts of human cells) to generate additional copies of the polynucleotides, to generate ribozymes or antisense oligonucleotides, and as single stranded DNA probes or as triple-strand forming oligonucleotides. The probes described herein can be used to, for example, determine the presence or absence of the polynucleotide sequences as shown in SEQ ID NOS:1-2707 or variants thereof in a sample. These and other uses are described in more detail below.

Use of Polynucleotides to Obtain Full-Length cDNA, Gene, and Promoter Region

Full-length cDNA molecules comprising the disclosed polynucleotides are obtained as follows. A polynucleotide having a sequence of one of SEQ ID NOS:1-2707, or a portion thereof comprising at least 12, 15, 18, or 20 nt, is used as a hybridization probe to detect hybridizing members of a cDNA library using probe design methods, cloning methods, and clone selection techniques such as those described in USPN 5,654,173. Libraries of cDNA are made from selected tissues, such as normal or tumor tissue, or from tissues of a mammal treated with, for example, a pharmaceutical agent. Preferably, the tissue is the same as the tissue from which the polynucleotides of the invention were isolated, as both the polynucleotides described herein and the cDNA represent expressed genes. Most preferably, the cDNA library is made from the biological material described herein in the Examples. The choice of cell type for library construction can be made after the identity of the protein encoded by the gene corresponding to the polynucleotide of the invention is known. This will indicate which tissue and cell types are likely to express the related gene, and thus represent a suitable source for the mRNA for generating the cDNA. Where the provided polynucleotides are isolated from cDNA libraries, the libraries are prepared from mRNA of human colon cells, more preferably, human colon cancer cells, even more preferably, from a highly metastatic colon cell, Km12L4-A.

Techniques for producing and probing nucleic acid sequence libraries are described, for example, in Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual, 2nd Ed.*, (1989) Cold Spring Harbor Press, Cold Spring Harbor, NY. The cDNA can be prepared by using primers based on sequence from SEQ ID NOS:1-2707 . In one embodiment, the cDNA library can be made from only poly-adenylated mRNA. Thus, poly-T primers can be used to prepare cDNA from the mRNA.

Members of the library that are larger than the provided polynucleotides, and preferably that encompass the complete coding sequence of the native message, are obtained. In order to confirm that the entire cDNA has been obtained, RNA protection experiments are performed as follows. Hybridization of a full-length cDNA to an mRNA will protect the RNA from RNase degradation. If the cDNA is not full length, then the portions of the mRNA that are not hybridized will be subject to RNase degradation. This is assayed, as is known in the art, by changes in electrophoretic mobility on polyacrylamide gels, or by detection of released monoribonucleotides. Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual, 2nd Ed.*, (1989) Cold Spring Harbor Press, Cold Spring Harbor, NY. In order to obtain additional sequences 5' to the end of a partial cDNA, 5' RACE (*PCR Protocols: A Guide to Methods and Applications*, (1990) Academic Press, Inc.) can be performed.

Genomic DNA is isolated using the provided polynucleotides in a manner similar to the isolation of full-length cDNAs. Briefly, the provided polynucleotides, or portions thereof, are used as probes to libraries of genomic DNA. Preferably, the library is obtained from the cell type that

was used to generate the polynucleotides of the invention. but this is not essential. Most preferably, the genomic DNA is obtained from the biological material described herein in the Examples. Such libraries can be in vectors suitable for carrying large segments of a genome. such as P1 or YAC. as described in detail in Sambrook *et al.*. 9.4-9.30. In addition. genomic sequences can be isolated from human BAC libraries. which are commercially available from Research Genetics. Inc.. Huntsville, Alabama. USA. for example. In order to obtain additional 5' or 3' sequences, chromosome walking is performed. as described in Sambrook *et al.*, such that adjacent and overlapping fragments of genomic DNA are isolated. These are mapped and pieced together. as is known in the art. using restriction digestion enzymes and DNA ligase.

Using the polynucleotide sequences of the invention. corresponding full-length genes can be isolated using both classical and PCR methods to construct and probe cDNA libraries. Using either method. Northern blots. preferably. are performed on a number of cell types to determine which cell lines express the gene of interest at the highest level. Classical methods of constructing cDNA libraries are taught in Sambrook *et al.*, *supra*. With these methods. cDNA can be produced from mRNA and inserted into viral or expression vectors. Typically. libraries of mRNA comprising poly(A) tails can be produced with poly(T) primers. Similarly, cDNA libraries can be produced using the instant sequences as primers.

PCR methods are used to amplify the members of a cDNA library that comprise the desired insert. In this case. the desired insert will contain sequence from the full length cDNA that corresponds to the instant polynucleotides. Such PCR methods include gene trapping and RACE methods. Gene trapping entails inserting a member of a cDNA library into a vector. The vector then is denatured to produce single stranded molecules. Next. a substrate-bound probe. such a biotinylated oligo. is used to trap cDNA inserts of interest. Biotinylated probes can be linked to an avidin-bound solid substrate. PCR methods can be used to amplify the trapped cDNA. To trap sequences corresponding to the full length genes. the labeled probe sequence is based on the polynucleotide sequences of the invention. Random primers or primers specific to the library vector can be used to amplify the trapped cDNA. Such gene trapping techniques are described in Gruber *et al.*, WO 95/04745 and Gruber *et al.*. USPN 5.500,356. Kits are commercially available to perform gene trapping experiments from. for example, Life Technologies. Gaithersburg, Maryland, USA.

"Rapid amplification of cDNA ends," or RACE, is a PCR method of amplifying cDNAs from a number of different RNAs. The cDNAs are ligated to an oligonucleotide linker. and amplified by PCR using two primers. One primer is based on sequence from the instant polynucleotides. for which full length sequence is desired. and a second primer comprises sequence that hybridizes to the oligonucleotide linker to amplify the cDNA. A description of this methods is reported in WO 97/19110. In preferred embodiments of RACE. a common primer is designed to

anneal to an arbitrary adaptor sequence ligated to cDNA ends (Apte and Siebert. *Biotechniques* (1993) *15*:890-893; Edwards *et al.*, *Nuc. Acids Res.* (1991) *19*:5227-5232). When a single gene-specific RACE primer is paired with the common primer, preferential amplification of sequences between the single gene specific primer and the common primer occurs. Commercial cDNA pools modified for use in RACE are available.

Another PCR-based method generates full-length cDNA library with anchored ends without needing specific knowledge of the cDNA sequence. The method uses lock-docking primers (I-VI), where one primer, poly TV (I-III) locks over the polyA tail of eukaryotic mRNA producing first strand synthesis and a second primer, polyGH (IV-VI) locks onto the polyC tail added by terminal deoxynucleotidyl transferase (TdT)(see, e.g., WO 96/40998).

The promoter region of a gene generally is located 5' to the initiation site for RNA polymerase II. Hundreds of promoter regions contain the "TATA" box, a sequence such as TATTA or TATAA, which is sensitive to mutations. The promoter region can be obtained by performing 5' RACE using a primer from the coding region of the gene. Alternatively, the cDNA can be used as a probe for the genomic sequence, and the region 5' to the coding region is identified by "walking up." If the gene is highly expressed or differentially expressed, the promoter from the gene can be of use in a regulatory construct for a heterologous gene.

Once the full-length cDNA or gene is obtained, DNA encoding variants can be prepared by site-directed mutagenesis, described in detail in Sambrook *et al.*, 15.3-15.63. The choice of codon or nucleotide to be replaced can be based on disclosure herein on optional changes in amino acids to achieve altered protein structure and/or function.

As an alternative method to obtaining DNA or RNA from a biological material, nucleic acid comprising nucleotides having the sequence of one or more polynucleotides of the invention can be synthesized. Thus, the invention encompasses nucleic acid molecules ranging in length from 15 nt (corresponding to at least 15 contiguous nt of one of SEQ ID NOS:1-2707) up to a maximum length suitable for one or more biological manipulations, including replication and expression, of the nucleic acid molecule. The invention includes but is not limited to (a) nucleic acid having the size of a full gene, and comprising at least one of SEQ ID NOS:1-2707; (b) the nucleic acid of (a) also comprising at least one additional gene, operably linked to permit expression of a fusion protein; (c) an expression vector comprising (a) or (b); (d) a plasmid comprising (a) or (b) ; and (e) a recombinant viral particle comprising (a) or (b). Once provided with the polynucleotides disclosed herein, construction or preparation of (a) - (e) are well within the skill in the art.

The sequence of a nucleic acid comprising at least 15 contiguous nt of at least any one of SEQ ID NOS:1-2707, preferably the entire sequence of at least any one of SEQ ID NOS:1-2707, is not limited and can be any sequence of A, T, G, and/or C (for DNA) and A, U, G, and/or C (for

RNA) or modified bases thereof, including inosine and pseudouridine. The choice of sequence will depend on the desired function and can be dictated by coding regions desired, the intron-like regions desired, and the regulatory regions desired. Where the entire sequence of any one of SEQ ID NOS:1-2707 is within the nucleic acid, the nucleic acid obtained is referred to herein as a polynucleotide comprising the sequence of any one of SEQ ID NOS:1-2707.

Expression of Polypeptide Encoded by Full-Length cDNA or Full-Length Gene

The provided polynucleotides (*e.g.*, a polynucleotide having a sequence of one of SEQ ID NOS:1-2707), the corresponding cDNA, or the full-length gene is used to express a partial or complete gene product. Constructs of polynucleotides having sequences of SEQ ID NOS:1-2707 can also be generated synthetically. Alternatively, single-step assembly of a gene and entire plasmid from large numbers of oligodeoxyribonucleotides is described by, *e.g.*, Stemmer *et al.*, *Gene (Amsterdam)* (1995) *164(1)*:49-53. In this method, assembly PCR (the synthesis of long DNA sequences from large numbers of oligodeoxyribonucleotides (oligos)) is described. The method is derived from DNA shuffling (Stemmer, *Nature* (1994) *370*:389-391), and does not rely on DNA ligase, but instead relies on DNA polymerase to build increasingly longer DNA fragments during the assembly process.

Appropriate polynucleotide constructs are purified using standard recombinant DNA techniques as described in, for example, Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual, 2nd Ed.*, (1989) Cold Spring Harbor Press, Cold Spring Harbor, NY, and under current regulations described in United States Dept. of HHS, National Institute of Health (NIH) Guidelines for Recombinant DNA Research. The gene product encoded by a polynucleotide of the invention is expressed in any expression system, including, for example, bacterial, yeast, insect, amphibian and mammalian systems. Vectors, host cells and methods for obtaining expression in same are well known in the art. Suitable vectors and host cells are described in USPN 5,654,173.

Polynucleotide molecules comprising a polynucleotide sequence provided herein are generally propagated by placing the molecule in a vector. Viral and non-viral vectors are used, including plasmids. The choice of plasmid will depend on the type of cell in which propagation is desired and the purpose of propagation. Certain vectors are useful for amplifying and making large amounts of the desired DNA sequence. Other vectors are suitable for expression in cells in culture. Still other vectors are suitable for transfer and expression in cells in a whole animal or person. The choice of appropriate vector is well within the skill of the art. Many such vectors are available commercially. Methods for preparation of vectors comprising a desired sequence are well known in the art.

The polynucleotides set forth in SEQ ID NOS:1-2707 or their corresponding full-length polynucleotides are linked to regulatory sequences as appropriate to obtain the desired expression

properties. These can include promoters (attached either at the 5' end of the sense strand or at the 3' end of the antisense strand), enhancers, terminators, operators, repressors, and inducers. The promoters can be regulated or constitutive. In some situations it may be desirable to use conditionally active promoters, such as tissue-specific or developmental stage-specific promoters. These are linked to the desired nucleotide sequence using the techniques described above for linkage to vectors. Any techniques known in the art can be used.

When any of the above host cells, or other appropriate host cells or organisms, are used to replicate and/or express the polynucleotides or nucleic acids of the invention, the resulting replicated nucleic acid, RNA, expressed protein or polypeptide, is within the scope of the invention as a product of the host cell or organism. The product is recovered by any appropriate means known in the art.

Once the gene corresponding to a selected polynucleotide is identified, its expression can be regulated in the cell to which the gene is native. For example, an endogenous gene of a cell can be regulated by an exogenous regulatory sequence as disclosed in USPN 5,641,670.

Identification of Functional and Structural Motifs of Novel Genes Screening Against Publicly Available Databases

Translations of the nucleotide sequence of the provided polynucleotides, cDNAs or full genes can be aligned with individual known sequences. Similarity with individual sequences can be used to determine the activity of the polypeptides encoded by the polynucleotides of the invention. Also, sequences exhibiting similarity with more than one individual sequence can exhibit activities that are characteristic of either or both individual sequences.

The full length sequences and fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full length sequence corresponding to provided polynucleotides. The nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences corresponding to the provided polynucleotides.

Typically, a selected polynucleotide is translated in all six frames to determine the best alignment with the individual sequences. The sequences disclosed herein in the Sequence Listing are in a 5' to 3' orientation and translation in three frames can be sufficient (with a few specific exceptions as described in the Examples). These amino acid sequences are referred to, generally, as query sequences, which will be aligned with the individual sequences. Databases with individual sequences are described in "Computer Methods for Macromolecular Sequence Analysis" *Methods in Enzymology* (1996) *266*, Doolittle, Academic Press, Inc., a division of Harcourt Brace & Co., San Diego, California, USA. Databases include GenBank, EMBL, and DNA Database of Japan (DDBJ).

Query and individual sequences can be aligned using the methods and computer programs described above, and include BLAST 2.0, available over the world wide web at http://www.ncbi.nlm.nih.gov/BLAST/. See also Altschul, et al. *Nucleic Acids Res.* (1997) *25*:3389-3402. Another alignment algorithm is Fasta, available in the Genetics Computing Group (GCG) package, Madison, Wisconsin, USA, a wholly owned subsidiary of Oxford Molecular Group, Inc. Other techniques for alignment are described in Doolittle, *supra*. Preferably, an alignment program that permits gaps in the sequence is utilized to align the sequences. The Smith-Waterman is one type of algorithm that permits gaps in sequence alignments. See *Meth. Mol. Biol.* (1997) *70*: 173-187. Also, the GAP program using the Needleman and Wunsch alignment method can be utilized to align sequences. An alternative search strategy uses MPSRCH software, which runs on a MASPAR computer. MPSRCH uses a Smith-Waterman algorithm to score sequences on a massively parallel computer. This approach improves ability to identify sequences that are distantly related matches, and is especially tolerant of small gaps and nucleotide sequence errors. Amino acid sequences encoded by the provided polynucleotides can be used to search both protein and DNA databases. Incorporated herein by reference are all sequences that have been made public as of the filing date of this application by any of the DNA or protein sequence databases, including the patent databases (*e.g.*, GeneSeq). Also incorporated by reference are those sequences that have been submitted to these databases as of the filing date of the present application but not made public until after the filing date of the present application.

Results of individual and query sequence alignments can be divided into three categories: high similarity, weak similarity, and no similarity. Individual alignment results ranging from high similarity to weak similarity provide a basis for determining polypeptide activity and/or structure. Parameters for categorizing individual results include: percentage of the alignment region length where the strongest alignment is found, percent sequence identity, and p value. The percentage of the alignment region length is calculated by counting the number of residues of the individual sequence found in the region of strongest alignment, *e.g.*, contiguous region of the individual sequence that contains the greatest number of residues that are identical to the residues of the corresponding region of the aligned query sequence. This number is divided by the total residue length of the query sequence to calculate a percentage. For example, a query sequence of 20 amino acid residues might be aligned with a 20 amino acid region of an individual sequence. The individual sequence might be identical to amino acid residues 5, 9-15, and 17-19 of the query sequence. The region of strongest alignment is thus the region stretching from residue 9-19, an 11 amino acid stretch. The percentage of the alignment region length is: 11 (length of the region of strongest alignment) divided by (query sequence length) 20 or 55%.

Percent sequence identity is calculated by counting the number of amino acid matches between the query and individual sequence and dividing total number of matches by the number of residues of the individual sequences found in the region of strongest alignment. Thus, the percent identity in the example above would be 10 matches divided by 11 amino acids, or approximately, 90.9%

P value is the probability that the alignment was produced by chance. For a single alignment, the p value can be calculated according to Karlin *et al., Proc. Natl. Acad. Sci.* (1990) *87*:2264 and Karlin *et al., Proc. Natl. Acad. Sci.* (1993) *90*. The p value of multiple alignments using the same query sequence can be calculated using an heuristic approach described in Altschul *et al., Nat. Genet.* (1994) *6*:119. Alignment programs such as BLAST program can calculate the p value. See also Altschul *et al., Nucleic Acids Res.* (1997) *25*:3389-3402.

Another factor to consider for determining identity or similarity is the location of the similarity or identity. Strong local alignment can indicate similarity even if the length of alignment is short. Sequence identity scattered throughout the length of the query sequence also can indicate a similarity between the query and profile sequences. The boundaries of the region where the sequences align can be determined according to Doolittle, *supra*; BLAST 2.0 (see, *e.g.*, Altschul, et al. *Nucleic Acids Res.* (1997) *25*:3389-3402) or FAST programs; or by determining the area where sequence identity is highest.

High Similarity. In general, in alignment results considered to be of high similarity, the percent of the alignment region length is typically at least about 55% of total length query sequence; more typically, at least about 58%; even more typically; at least about 60% of the total residue length of the query sequence. Usually, percent length of the alignment region can be as much as about 62%; more usually, as much as about 64%; even more usually, as much as about 66%. Further, for high similarity, the region of alignment, typically, exhibits at least about 75% of sequence identity; more typically, at least about 78%; even more typically; at least about 80% sequence identity. Usually, percent sequence identity can be as much as about 82%; more usually, as much as about 84%; even more usually, as much as about 86%.

The p value is used in conjunction with these methods. If high similarity is found, the query sequence is considered to have high similarity with a profile sequence when the p value is less than or equal to about 10^{-2}; more usually; less than or equal to about 10^{-3}; even more usually; less than or equal to about 10^{-4}. More typically, the p value is no more than about 10^{-5}; more typically; no more than or equal to about 10^{-10}; even more typically; no more than or equal to about 10^{-15} for the query sequence to be considered high similarity.

Weak Similarity. In general, where alignment results considered to be of weak similarity, there is no minimum percent length of the alignment region nor minimum length of alignment. A better showing of weak similarity is considered when the region of alignment is, typically, at least about 15 amino acid residues in length; more typically, at least about 20; even more typically; at least about 25 amino acid residues in length. Usually, length of the alignment region can be as much as about 30 amino acid residues; more usually, as much as about 40; even more usually, as much as about 60 amino acid residues. Further, for weak similarity, the region of alignment, typically, exhibits at least about 35% of sequence identity; more typically, at least about 40%; even more typically; at least about 45% sequence identity. Usually, percent sequence identity can be as much as about 50%; more usually, as much as about 55%; even more usually, as much as about 60%.

If low similarity is found, the query sequence is considered to have weak similarity with a profile sequence when the p value is usually less than or equal to about 10^{-2}; more usually; less than or equal to about 10^{-3}; even more usually; less than or equal to about 10^{-4}. More typically, the p value is no more than about 10^{-5}; more usually; no more than or equal to about 10^{-10}; even more usually; no more than or equal to about 10^{-15} for the query sequence to be considered weak similarity.

Similarity Determined by Sequence Identity Alone. Sequence identity alone can be used to determine similarity of a query sequence to an individual sequence and can indicate the activity of the sequence. Such an alignment, preferably, permits gaps to align sequences. Typically, the query sequence is related to the profile sequence if the sequence identity over the entire query sequence is at least about 15%; more typically, at least about 20%; even more typically, at least about 25%; even more typically, at least about 50%. Sequence identity alone as a measure of similarity is most useful when the query sequence is usually, at least 80 residues in length; more usually, 90 residues; even more usually, at least 95 amino acid residues in length. More typically, similarity can be concluded based on sequence identity alone when the query sequence is preferably 100 residues in length; more preferably, 120 residues in length; even more preferably, 150 amino acid residues in length.

Alignments with Profile and Multiple Aligned Sequences. Translations of the provided polynucleotides can be aligned with amino acid profiles that define either protein families or common motifs. Also, translations of the provided polynucleotides can be aligned to multiple sequence alignments (MSA) comprising the polypeptide sequences of members of protein families or motifs. Similarity or identity with profile sequences or MSAs can be used to determine the activity of the gene products (*e.g.*, polypeptides) encoded by the provided polynucleotides or

corresponding cDNA or genes. For example, sequences that show an identity or similarity with a chemokine profile or MSA can exhibit chemokine activities.

Profiles can designed manually by (1) creating an MSA, which is an alignment of the amino acid sequence of members that belong to the family and (2) constructing a statistical representation of the alignment. Such methods are described, for example, in Birney *et al., Nucl. Acid Res.* (1996) *24(14)*: 2730-2739. MSAs of some protein families and motifs are publicly available. For example, http://genome.wustl.edu/Pfam/ includes MSAs of 547 different families and motifs. These MSAs are described also in Sonnhammer *et al., Proteins* (1997) *28*: 405-420. Other sources over the world wide web include the site at http://www.embl-heidelberg.de/argos/ali/ali.html; alternatively, a message can be sent to ALI@EMBL-HEIDELBERG.DE for the information. A brief description of these MSAs is reported in Pascarella *et al., Prot. Eng.* (1996) *9(3)*:249-251. Techniques for building profiles from MSAs are described in Sonnhammer *et al., supra*; Birney *et al., supra*; and "Computer Methods for Macromolecular Sequence Analysis," *Methods in Enzymology* (1996) *266*, Doolittle, Academic Press, Inc., San Diego, California, USA.

Similarity between a query sequence and a protein family or motif can be determined by (a) comparing the query sequence against the profile and/or (b) aligning the query sequence with the members of the family or motif. Typically, a program such as Searchwise is used to compare the query sequence to the statistical representation of the multiple alignment, also known as a profile (see Birney *et al., supra*). Other techniques to compare the sequence and profile are described in Sonnhammer *et al., supra* and Doolittle, *supra*.

Next, methods described by Feng *et al., J. Mol. Evol.* (1987) *25*:351 and Higgins *et al., CABIOS* (1989) *5*:151 can be used align the query sequence with the members of a family or motif, also known as a MSA. Sequence alignments can be generated using any of a variety of software tools. Examples include PileUp, which creates a multiple sequence alignment, and is described in Feng *et al., J. Mol. Evol.* (1987) *25*:351. Another method, GAP, uses the alignment method of Needleman *et al., J. Mol. Biol.* (1970) *48*:443. GAP is best suited for global alignment of sequences. A third method, BestFit, functions by inserting gaps to maximize the number of matches using the local homology algorithm of Smith *et al., Adv. Appl. Math.* (1981) *2*:482. In general, the following factors are used to determine if a similarity between a query sequence and a profile or MSA exists: (1) number of conserved residues found in the query sequence, (2) percentage of conserved residues found in the query sequence, (3) number of frameshifts, and (4) spacing between conserved residues.

Some alignment programs that both translate and align sequences can make any number of frameshifts when translating the nucleotide sequence to produce the best alignment. The fewer frameshifts needed to produce an alignment, the stronger the similarity or identity between the query and profile or MSAs. For example, a weak similarity resulting from no frameshifts can be a better

indication of activity or structure of a query sequence. than a strong similarity resulting from two frameshifts. Preferably, three or fewer frameshifts are found in an alignment: more preferably two or fewer frameshifts: even more preferably. one or fewer frameshifts: even more preferably. no frameshifts are found in an alignment of query and profile or MSAs.

Conserved residues are those amino acids found at a particular position in all or some of the family or motif members. Alternatively. a position is considered conserved if only a certain class of amino acids is found in a particular position in all or some of the family members. For example. the N-terminal position can contain a positively charged amino acid. such as lysine. arginine. or histidine.

Typically. a residue of a polypeptide is conserved when a class of amino acids or a single amino acid is found at a particular position in at least about 40% of all class members: more typically. at least about 50%: even more typically. at least about 60% of the members. Usually. a residue is conserved when a class or single amino acid is found in at least about 70% of the members of a family or motif: more usually. at least about 80%: even more usually. at least about 90%: even more usually. at least about 95%.

A residue is considered conserved when three unrelated amino acids are found at a particular position in the some or all of the members: more usually. two unrelated amino acids. These residues are conserved when the unrelated amino acids are found at particular positions in at least about 40% of all class member: more typically. at least about 50%: even more typically, at least about 60% of the members. Usually. a residue is conserved when a class or single amino acid is found in at least about 70% of the members of a family or motif: more usually. at least about 80%: even more usually, at least about 90%: even more usually. at least about 95%.

A query sequence has similarity to a profile or MSA when the query sequence comprises at least about 25% of the conserved residues of the profile or MSA: more usually, at least about 30%: even more usually: at least about 40%. Typically. the query sequence has a stronger similarity to a profile sequence or MSA when the query sequence comprises at least about 45% of the conserved residues of the profile or MSA: more typically. at least about 50%: even more typically: at least about 55%.

Identification of Secreted & Membrane-Bound Polypeptides

Both secreted and membrane-bound polypeptides of the present invention are of particular interest. For example. levels of secreted polypeptides can be assayed in body fluids that are convenient. such as blood, plasma, serum. and other body fluids such as urine, prostatic fluid and semen. Membrane-bound polypeptides are useful for constructing vaccine antigens or inducing an immune response.. Such antigens would comprise all or part of the extracellular region of the membrane-bound polypeptides. Because both secreted and membrane-bound polypeptides comprise

a fragment of contiguous hydrophobic amino acids. hydrophobicity predicting algorithms can be used to identify such polypeptides.

A signal sequence is usually encoded by both secreted and membrane-bound polypeptide genes to direct a polypeptide to the surface of the cell. The signal sequence usually comprises a stretch of hydrophobic residues. Such signal sequences can fold into helical structures. Membrane-bound polypeptides typically comprise at least one transmembrane region that possesses a stretch of hydrophobic amino acids that can transverse the membrane. Some transmembrane regions also exhibit a helical structure. Hydrophobic fragments within a polypeptide can be identified by using computer algorithms. Such algorithms include Hopp & Woods, *Proc. Natl. Acad. Sci. USA* (1981) *78*:3824-3828; Kyte & Doolittle, *J. Mol. Biol.* (1982) *157*: 105-132; and RAOAR algorithm, Degli Esposti *et al.*, *Eur. J. Biochem.* (1990) *190*: 207-219.

Another method of identifying secreted and membrane-bound polypeptides is to translate the polynucleotides of the invention in all six frames and determine if at least 8 contiguous hydrophobic amino acids are present. Those translated polypeptides with at least 8; more typically, 10; even more typically, 12 contiguous hydrophobic amino acids are considered to be either a putative secreted or membrane bound polypeptide. Hydrophobic amino acids include alanine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, threonine, tryptophan, tyrosine, and valine

Identification of the Function of an Expression Product of a Full-Length Gene

Ribozymes, antisense constructs, and dominant negative mutants can be used to determine function of the expression product of a gene corresponding to a polynucleotide provided herein. These methods and compositions are particularly useful where the provided novel polynucleotide exhibits no significant or substantial homology to a sequence encoding a gene of known function. Antisense molecules and ribozymes can be constructed from synthetic polynucleotides. Typically, the phosphoramidite method of oligonucleotide synthesis is used. See Beaucage *et al.*, *Tet. Lett.* (1981) *22*:1859 and USPN 4,668,777. Automated devices for synthesis are available to create oligonucleotides using this chemistry. Examples of such devices include Biosearch 8600, Models 392 and 394 by Applied Biosystems, a division of Perkin-Elmer Corp., Foster City, California, USA; and Expedite by Perceptive Biosystems, Framingham, Massachusetts, USA. Synthetic RNA, phosphate analog oligonucleotides, and chemically derivatized oligonucleotides can also be produced, and can be covalently attached to other molecules. RNA oligonucleotides can be synthesized, for example, using RNA phosphoramidites. This method can be performed on an automated synthesizer, such as Applied Biosystems, Models 392 and 394, Foster City, California, USA.

Phosphorothioate oligonucleotides can also be synthesized for antisense construction. A sulfurizing reagent, such as tetraethylthiruam disulfide (TETD) in acetonitrile can be used to convert the internucleotide cyanoethyl phosphite to the phosphorothioate triester within 15 minutes at room temperature. TETD replaces the iodine reagent, while all other reagents used for standard phosphoramidite chemistry remain the same. Such a synthesis method can be automated using Models 392 and 394 by Applied Biosystems, for example.

Oligonucleotides of up to 200 nt can be synthesized, more typically, 100 nt, more typically 50 nt; even more typically 30 to 40 nt. These synthetic fragments can be annealed and ligated together to construct larger fragments. See, for example, Sambrook *et al., supra*. Trans-cleaving catalytic RNAs (ribozymes) are RNA molecules possessing endoribonuclease activity. Ribozymes are specifically designed for a particular target, and the target message must contain a specific nucleotide sequence. They are engineered to cleave any RNA species site-specifically in the background of cellular RNA. The cleavage event renders the mRNA unstable and prevents protein expression. Importantly, ribozymes can be used to inhibit expression of a gene of unknown function for the purpose of determining its function in an in vitro or in vivo context, by detecting the phenotypic effect. One commonly used ribozyme motif is the hammerhead, for which the substrate sequence requirements are minimal. Design of the hammerhead ribozyme, as well as therapeutic uses of ribozymes, are disclosed in Usman *et al., Current Opin. Struct. Biol.* (1996) 6:527. Methods for production of ribozymes, including hairpin structure ribozyme fragments, methods of increasing ribozyme specificity, and the like are known in the art.

The hybridizing region of the ribozyme can be modified or can be prepared as a branched structure as described in Horn and Urdea, *Nucleic Acids Res.* (1989) *17*:6959. The basic structure of the ribozymes can also be chemically altered in ways familiar to those skilled in the art, and chemically synthesized ribozymes can be administered as synthetic oligonucleotide derivatives modified by monomeric units. In a therapeutic context, liposome mediated delivery of ribozymes improves cellular uptake, as described in Birikh *et al., Eur. J. Biochem.* (1997) *245*:1.

Antisense nucleic acids are designed to specifically bind to RNA, resulting in the formation of RNA-DNA or RNA-RNA hybrids, with an arrest of DNA replication, reverse transcription or messenger RNA translation. Antisense polynucleotides based on a selected polynucleotide sequence can interfere with expression of the corresponding gene. Antisense polynucleotides are typically generated within the cell by expression from antisense constructs that contain the antisense strand as the transcribed strand. Antisense polynucleotides based on the disclosed polynucleotides will bind and/or interfere with the translation of mRNA comprising a sequence complementary to the antisense polynucleotide. The expression products of control cells and cells treated with the antisense construct are compared to detect the protein product of the gene corresponding to the

polynucleotide upon which the antisense construct is based. The protein is isolated and identified using routine biochemical methods.

Given the extensive background literature and clinical experience in antisense therapy, one skilled in the art can use selected polynucleotides of the invention as additional potential therapeutics. The choice of polynucleotide can be narrowed by first testing them for binding to "hot spot" regions of the genome of cancerous cells. If a polynucleotide is identified as binding to a "hot spot", testing the polynucleotide as an antisense compound in the corresponding cancer cells is warranted.

As an alternative method for identifying function of the gene corresponding to a polynucleotide disclosed herein, dominant negative mutations are readily generated for corresponding proteins that are active as homomultimers. A mutant polypeptide will interact with wild-type polypeptides (made from the other allele) and form a non-functional multimer. Thus, a mutation is in a substrate-binding domain, a catalytic domain, or a cellular localization domain. Preferably, the mutant polypeptide will be overproduced. Point mutations are made that have such an effect. In addition, fusion of different polypeptides of various lengths to the terminus of a protein can yield dominant negative mutants. General strategies are available for making dominant negative mutants (see, *e.g.*, Herskowitz, *Nature* (1987) *329*:219). Such techniques can be used to create loss of function mutations, which are useful for determining protein function.

Polypeptides and Variants Thereof

The polypeptides of the invention include those encoded by the disclosed polynucleotides, as well as nucleic acids that, by virtue of the degeneracy of the genetic code, are not identical in sequence to the disclosed polynucleotides. Thus, the invention includes within its scope a polypeptide encoded by a polynucleotide having the sequence of any one of SEQ ID NOS:1-2707 or a variant thereof.

In general, the term "polypeptide" as used herein refers to both the full length polypeptide encoded by the recited polynucleotide, the polypeptide encoded by the gene represented by the recited polynucleotide, as well as portions or fragments thereof. "Polypeptides" also includes variants of the naturally occurring proteins, where such variants are homologous or substantially similar to the naturally occurring protein, and can be of an origin of the same or different species as the naturally occurring protein (*e.g.*, human, murine, or some other species that naturally expresses the recited polypeptide, usually a mammalian species). In general, variant polypeptides have a sequence that has at least about 80%, usually at least about 90%, and more usually at least about 98% sequence identity with a differentially expressed polypeptide of the invention, as measured by BLAST 2.0 using the parameters described above. The variant polypeptides can be naturally or non-

naturally glycosylated, *i.e.*, the polypeptide has a glycosylation pattern that differs from the glycosylation pattern found in the corresponding naturally occurring protein.

The invention also encompasses homologs of the disclosed polypeptides (or fragments thereof) where the homologs are isolated from other species, *i.e.* other animal or plant species, where such homologs, usually mammalian species, *e.g.* rodents, such as mice, rats; domestic animals, *e.g.*, horse, cow, dog, cat; and humans. By "homolog" is meant a polypeptide having at least about 35%, usually at least about 40% and more usually at least about 60% amino acid sequence identity to a particular differentially expressed protein as identified above, where sequence identity is determined using the BLAST 2.0 algorithm, with the parameters described *supra*.

In general, the polypeptides of the subject invention are provided in a non-naturally occurring environment, *e.g.* are separated from their naturally occurring environment. In certain embodiments, the subject protein is present in a composition that is enriched for the protein as compared to a control. As such, purified polypeptide is provided, where by purified is meant that the protein is present in a composition that is substantially free of non-differentially expressed polypeptides, where by substantially free is meant that less than 90%, usually less than 60% and more usually less than 50% of the composition is made up of non-differentially expressed polypeptides.

Also within the scope of the invention are variants; variants of polypeptides include mutants, fragments, and fusions. Mutants can include amino acid substitutions, additions or deletions. The amino acid substitutions can be conservative amino acid substitutions or substitutions to eliminate non-essential amino acids, such as to alter a glycosylation site, a phosphorylation site or an acetylation site, or to minimize misfolding by substitution or deletion of one or more cysteine residues that are not necessary for function. Conservative amino acid substitutions are those that preserve the general charge, hydrophobicity/ hydrophilicity, and/or steric bulk of the amino acid substituted. Variants can be designed so as to retain or have enhanced biological activity of a particular region of the protein (*e.g.*, a functional domain and/or, where the polypeptide is a member of a protein family, a region associated with a consensus sequence). Selection of amino acid alterations for production of variants can be based upon the accessibility (interior vs. exterior) of the amino acid (see, e.g., Go *et al. Int. J. Peptide Protein Res.* (1980) *15*:211), the thermostability of the variant polypeptide (see, e.g., Querol *et al., Prot. Eng.* (1996) *9*:265), desired glycosylation sites (see, e.g., Olsen and Thomsen, *J. Gen. Microbiol.* (1991) *137*:579), desired disulfide bridges (see, e.g., Clarke *et al., Biochemistry* (1993) *32*:4322; and Wakarchuk *et al., Protein Eng.* (1994) 7:1379), desired metal binding sites (see, e.g., Toma *et al., Biochemistry* (1991) *30*:97, and Haezerbrouck *et al., Protein Eng.* (1993) *6*:643), and desired substitutions with in proline loops (see, e.g., Masul *et*

al., *Appl. Env. Microbiol.* (1994) *60*:3579). Cysteine-depleted muteins can be produced as disclosed in USPN 4,959,314.

Variants also include fragments of the polypeptides disclosed herein, particularly biologically active fragments and/or fragments corresponding to functional domains. Fragments of interest will typically be at least about 10 aa to at least about 15 aa in length, usually at least about 50 aa in length, and can be as long as 300 aa in length or longer, but will usually not exceed about 1000 aa in length, where the fragment will have a stretch of amino acids that is identical to a polypeptide encoded by a polynucleotide having a sequence of any SEQ ID NOS:1-2707, or a homolog thereof. The protein variants described herein are encoded by polynucleotides that are within the scope of the invention. The genetic code can be used to select the appropriate codons to construct the corresponding variants.

Computer-Related Embodiments

In general, a library of polynucleotides is a collection of sequence information, which information is provided in either biochemical form (*e.g.*, as a collection of polynucleotide molecules), or in electronic form (*e.g.*, as a collection of polynucleotide sequences stored in a computer-readable form, as in a computer system and/or as part of a computer program). The sequence information of the polynucleotides can be used in a variety of ways, *e.g.*, as a resource for gene discovery, as a representation of sequences expressed in a selected cell type (*e.g.*, cell type markers), and/or as markers of a given disease or disease state. In general, a disease marker is a representation of a gene product that is present in all cells affected by disease either at an increased or decreased level relative to a normal cell (*e.g.*, a cell of the same or similar type that is not substantially affected by disease). For example, a polynucleotide sequence in a library can be a polynucleotide that represents an mRNA, polypeptide, or other gene product encoded by the polynucleotide, that is either overexpressed or underexpressed in a breast ductal cell affected by cancer relative to a normal (*i.e.*, substantially disease-free) breast cell.

The nucleotide sequence information of the library can be embodied in any suitable form, *e.g.*, electronic or biochemical forms. For example, a library of sequence information embodied in electronic form comprises an accessible computer data file (or, in biochemical form, a collection of nucleic acid molecules) that contains the representative nucleotide sequences of genes that are differentially expressed (*e.g.*, overexpressed or underexpressed) as between, for example, i) a cancerous cell and a normal cell; ii) a cancerous cell and a dysplastic cell; iii) a cancerous cell and a cell affected by a disease or condition other than cancer; iv) a metastatic cancerous cell and a normal cell and/or non-metastatic cancerous cell; v) a malignant cancerous cell and a non-malignant cancerous cell (or a normal cell) and/or vi) a dysplastic cell relative to a normal cell. Other combinations and comparisons of cells affected by various diseases or stages of disease will be

readily apparent to the ordinarily skilled artisan. Biochemical embodiments of the library include a collection of nucleic acids that have the sequences of the genes in the library, where the nucleic acids can correspond to the entire gene in the library or to a fragment thereof, as described in greater detail below.

The polynucleotide libraries of the subject invention generally comprise sequence information of a plurality of polynucleotide sequences, where at least one of the polynucleotides has a sequence of any of SEQ ID NOS:1-2707. By plurality is meant at least 2, usually at least 3 and can include up to all of SEQ ID NOS:1-2707. The length and number of polynucleotides in the library will vary with the nature of the library, *e.g.*, if the library is an oligonucleotide array, a cDNA array, a computer database of the sequence information, etc.

Where the library is an electronic library, the nucleic acid sequence information can be present in a variety of media. "Media" refers to a manufacture, other than an isolated nucleic acid molecule, that contains the sequence information of the present invention. Such a manufacture provides the genome sequence or a subset thereof in a form that can be examined by means not directly applicable to the sequence as it exists in a nucleic acid. For example, the nucleotide sequence of the present invention, *e.g.* the nucleic acid sequences of any of the polynucleotides of SEQ ID NOS:1-2707, can be recorded on computer readable media, *e.g.* any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as a floppy disc, a hard disc storage medium, and a magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. One of skill in the art can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising a recording of the present sequence information. "Recorded" refers to a process for storing information on computer readable medium, using any such methods as known in the art. Any convenient data storage structure can be chosen, based on the means used to access the stored information. A variety of data processor programs and formats can be used for storage, *e.g.* word processing text file, database format, *etc.* In addition to the sequence information, electronic versions of the libraries of the invention can be provided in conjunction or connection with other computer-readable information and/or other types of computer-readable files (*e.g.*, searchable files, executable files, *etc*, including, but not limited to, for example, search program software, *etc.*).

By providing the nucleotide sequence in computer readable form, the information can be accessed for a variety of purposes. Computer software to access sequence information is publicly available. For example, the gapped BLAST (Altschul *et al. Nucleic Acids Res.* (1997) *25*:3389-3402) and BLAZE (Brutlag *et al. Comp. Chem.* (1993) 17:203) search algorithms on a Sybase

system can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs from other organisms.

As used herein. "a computer-based system" refers to the hardware means. software means. and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware of the computer-based systems of the present invention comprises a central processing unit (CPU). input means. output means. and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention. The data storage means can comprise any manufacture comprising a recording of the present sequence information as described above. or a memory access means that can access such a manufacture.

"Search means" refers to one or more programs implemented on the computer-based system, to compare a target sequence or target structural motif. or expression levels of a polynucleotide in a sample. with the stored sequence information. Search means can be used to identify fragments or regions of the genome that match a particular target sequence or target motif. A variety of known algorithms are publicly known and commercially available. *e.g.* MacPattern (EMBL). BLASTN and BLASTX (NCBI). A "target sequence" can be any polynucleotide or amino acid sequence of six or more contiguous nucleotides or two or more amino acids. preferably from about 10 to 100 amino acids or from about 30 to 300 nt A variety of comparing means can be used to accomplish comparison of sequence information from a sample (e.g., to analyze target sequences. target motifs. or relative expression levels) with the data storage means. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer based systems of the present invention to accomplish comparison of target sequences and motifs. Computer programs to analyze expression levels in a sample and in controls are also known in the art.

A "target structural motif." or "target motif." refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration that is formed upon the folding of the target motif. or on consensus sequences of regulatory or active sites. There are a variety of target motifs known in the art. Protein target motifs include. but are not limited to. enzyme active sites and signal sequences. Nucleic acid target motifs include. but are not limited to. hairpin structures. promoter sequences and other expression elements such as binding sites for transcription factors.

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. One format for an output means ranks the relative expression levels of different polynucleotides. Such presentation

provides a skilled artisan with a ranking of relative expression levels to determine a gene expression profile. .

As discussed above, the "library" of the invention also encompasses biochemical libraries of the polynucleotides of SEQ ID NOS:1-2707 , *e.g.*, collections of nucleic acids representing the provided polynucleotides. The biochemical libraries can take a variety of forms, *e.g.*, a solution of cDNAs, a pattern of probe nucleic acids stably associated with a surface of a solid support (*i.e.*, an array) and the like. Of particular interest are nucleic acid arrays in which one or more of SEQ ID NOS:1-2707 is represented on the array. By array is meant a an article of manufacture that has at least a substrate with at least two distinct nucleic acid targets on one of its surfaces, where the number of distinct nucleic acids can be considerably higher, typically being at least 10 nt, usually at least 20 nt and often at least 25 nt. A variety of different array formats have been developed and are known to those of skill in the art. The arrays of the subject invention find use in a variety of applications, including gene expression analysis, drug screening, mutation analysis and the like, as disclosed in the above-listed exemplary patent documents.

In addition to the above nucleic acid libraries, analogous libraries of polypeptides are also provided, where the where the polypeptides of the library will represent at least a portion of the polypeptides encoded by SEQ ID NOS:1-2707.

Utilities

Use of Polynucleotide Probes in Mapping, and in Tissue Profiling

Polynucleotide probes, generally comprising at least 12 contiguous nt of a polynucleotide as shown in the Sequence Listing, are used for a variety of purposes, such as chromosome mapping of the polynucleotide and detection of transcription levels. Additional disclosure about preferred regions of the disclosed polynucleotide sequences is found in the Examples. A probe that hybridizes specifically to a polynucleotide disclosed herein should provide a detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with other unrelated sequences.

Detection of Expression Levels. Nucleotide probes are used to detect expression of a gene corresponding to the provided polynucleotide. In Northern blots, mRNA is separated electrophoretically and contacted with a probe. A probe is detected as hybridizing to an mRNA species of a particular size. The amount of hybridization is quantitated to determine relative amounts of expression, for example under a particular condition. Probes are used for in situ hybridization to cells to detect expression. Probes can also be used *in vivo* for diagnostic detection of hybridizing sequences. Probes are typically labeled with a radioactive isotope. Other types of detectable labels can be used such as chromophores, fluors, and enzymes. Other examples of nucleotide hybridization assays are described in WO92/02526 and USPN 5,124,246.

Alternatively, the Polymerase Chain Reaction (PCR) is another means for detecting small amounts of target nucleic acids (see, *e.g.*, Mullis *et al.*, *Meth. Enzymol.* (1987) *155*:335; USPN 4,683,195; and USPN 4,683,202). Two primer polynucleotides nucleotides that hybridize with the target nucleic acids are used to prime the reaction. The primers can be composed of sequence within or 3' and 5' to the polynucleotides of the Sequence Listing. Alternatively, if the primers are 3' and 5' to these polynucleotides, they need not hybridize to them or the complements. After amplification of the target with a thermostable polymerase, the amplified target nucleic acids can be detected by methods known in the art, e.g., Southern blot. mRNA or cDNA can also be detected by traditional blotting techniques (e.g., Southern blot, Northern blot, etc.) described in Sambrook *et al.*, "Molecular Cloning: A Laboratory Manual" (New York, Cold Spring Harbor Laboratory, 1989) (e.g., without PCR amplification). In general, mRNA or cDNA generated from mRNA using a polymerase enzyme can be purified and separated using gel electrophoresis, and transferred to a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe, washed to remove any unhybridized probe, and duplexes containing the labeled probe are detected.

Mapping. Polynucleotides of the present invention can be used to identify a chromosome on which the corresponding gene resides. Such mapping can be useful in identifying the function of the polynucleotide-related gene by its proximity to other genes with known function. Function can also be assigned to the polynucleotide-related gene when particular syndromes or diseases map to the same chromosome. For example, use of polynucleotide probes in identification and quantification of nucleic acid sequence aberrations is described in USPN 5,783,387. An exemplary mapping method is fluorescence in situ hybridization (FISH), which facilitates comparative genomic hybridization to allow total genome assessment of changes in relative copy number of DNA sequences (see, e.g., Valdes *et al.*, *Methods in Molecular Biology* (1997) *68*:1). Polynucleotides can also be mapped to particular chromosomes using, for example, radiation hybrids or chromosome-specific hybrid panels. See Leach *et al.*, *Advances in Genetics*, (1995) *33*:63-99; Walter *et al.*, *Nature Genetics* (1994) *7*:22; Walter and Goodfellow, *Trends in Genetics* (1992) 9:352. Panels for radiation hybrid mapping are available from Research Genetics, Inc., Huntsville, Alabama, USA. Databases for markers using various panels are available via the world wide web at http:/F/shgc-www.stanford.edu; and http://www-genome.wi.mit.edu/cgi-bin/contig/rhmapper.pl. The statistical program RHMAP can be used to construct a map based on the data from radiation hybridization with a measure of the relative likelihood of one order versus another. RHMAP is available via the world wide web at http://www.sph.umich.edu/group/statgen/software. In addition, commercial programs are available for identifying regions of chromosomes commonly associated with disease, such as cancer.

Tissue Typing or Profiling. Expression of specific mRNA corresponding to the provided polynucleotides can vary in different cell types and can be tissue-specific. This variation of mRNA levels in different cell types can be exploited with nucleic acid probe assays to determine tissue types. For example, PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes substantially identical or complementary to polynucleotides listed in the Sequence Listing can determine the presence or absence of the corresponding cDNA or mRNA.

Tissue typing can be used to identify the developmental organ or tissue source of a metastatic lesion by identifying the expression of a particular marker of that organ or tissue. If a polynucleotide is expressed only in a specific tissue type, and a metastatic lesion is found to express that polynucleotide, then the developmental source of the lesion has been identified. Expression of a particular polynucleotide can be assayed by detection of either the corresponding mRNA or the protein product. As would be readily apparent to any forensic scientist, the sequences disclosed herein are useful in differentiating human tissue from non-human tissue. In particular, these sequences are useful to differentiate human tissue from bird, reptile, and amphibian tissue, for example.

Use of Polymorphisms. A polynucleotide of the invention can be used in forensics, genetic analysis, mapping, and diagnostic applications where the corresponding region of a gene is polymorphic in the human population. Any means for detecting a polymorphism in a gene can be used, including, but not limited to electrophoresis of protein polymorphic variants, differential sensitivity to restriction enzyme cleavage, and hybridization to allele-specific probes.

Antibody Production

Expression products of a polynucleotide of the invention, as well as the corresponding mRNA, cDNA, or complete gene, can be prepared and used for raising antibodies for experimental, diagnostic, and therapeutic purposes. For polynucleotides to which a corresponding gene has not been assigned, this provides an additional method of identifying the corresponding gene. The polynucleotide or related cDNA is expressed as described above, and antibodies are prepared. These antibodies are specific to an epitope on the polypeptide encoded by the polynucleotide, and can precipitate or bind to the corresponding native protein in a cell or tissue preparation or in a cell-free extract of an in vitro expression system.

Methods for production of antibodies that specifically bind a selected antigen are well known in the art. Immunogens for raising antibodies can be prepared by mixing a polypeptide encoded by a polynucleotide of the invention with an adjuvant, and/or by making fusion proteins with larger immunogenic proteins. Polypeptides can also be covalently linked to other larger immunogenic proteins, such as keyhole limpet hemocyanin. Immunogens are typically administered intradermally, subcutaneously, or intramuscularly to experimental animals such as rabbits, sheep,

and mice. to generate antibodies. Monoclonal antibodies can be Monoclonal antibodies can be generated by isolating spleen cells and fusing myeloma cells to form hybridomas. Alternatively. the selected polynucleotide is administered directly. such as by intramuscular injection. and expressed in vivo. The expressed protein generates a variety of protein-specific immune responses. including production of antibodies. comparable to administration of the protein.

Preparations of polyclonal and monoclonal antibodies specific for polypeptides encoded by a selected polynucleotide are made using standard methods known in the art. The antibodies specifically bind to epitopes present in the polypeptides encoded by polynucleotides disclosed in the Sequence Listing. Typically. at least 6. 8. 10. or 12 contiguous amino acids are required to form an epitope. Epitopes that involve non-contiguous amino acids may require a longer polypeptide. e.g.. at least 15. 25. or 50 amino acids. Antibodies that specifically bind to human polypeptides encoded by the provided polypeptides should provide a detection signal at least 5-. 10-. or 20-fold higher than a detection signal provided with other proteins when used in Western blots or other immunochemical assays. Preferably. antibodies that specifically polypeptides of the invention do not bind to other proteins in immunochemical assays at detectable levels and can immunoprecipitate the specific polypeptide from solution.

The invention also contemplates naturally occurring antibodies specific for a polypeptide of the invention. For example. serum antibodies to a polypeptide of the invention in a human population can be purified by methods well known in the art. e.g.. by passing antiserum over a column to which the corresponding selected polypeptide or fusion protein is bound. The bound antibodies can then be eluted from the column. for example using a buffer with a high salt concentration.

In addition to the antibodies discussed above. the invention also contemplates genetically engineered antibodies. antibody derivatives (e.g.. single chain antibodies. antibody fragments (e.g.. Fab. etc.)). according to methods well known in the art.

Polynucleotides or Arrays for Diagnostics

Polynucleotide arrays provide a high throughput technique that can assay a large number of polynucleotide sequences in a sample. This technology can be used as a diagnostic and as a tool to test for differential expression. e.g.. to determine function of an encoded protein. Arrays can be created by spotting polynucleotide probes onto a substrate (*e.g.*, glass. nitrocelllose. *etc.*) in a two-dimensional matrix or array having bound probes. The probes can be bound to the substrate by either covalent bonds or by non-specific interactions. such as hydrophobic interactions. Samples of polynucleotides can be detectably labeled (*e.g.*. using radioactive or fluorescent labels) and then hybridized to the probes. Double stranded polynucleotides. comprising the labeled sample polynucleotides bound to probe polynucleotides. can be detected once the unbound portion of the

sample is washed away. Techniques for constructing arrays and methods of using these arrays are described in EP 799 897; WO 97/29212; WO 97/27317; EP 785 280; WO 97/02357; USPN 5,593,839; USPN 5,578,832; EP 728 520; USPN 5,599,695; EP 721 016; USPN 5,556,752; WO 95/22058; and USPN 5,631,734. Arrays can be used to, for example, examine differential expression of genes and can be used to determine gene function. For example, arrays can be used to detect differential expression of a polynucleotide between a test cell and control cell (*e.g.*, cancer cells and normal cells). For example, high expression of a particular message in a cancer cell, which is not observed in a corresponding normal cell, can indicate a cancer specific gene product. Exemplary uses of arrays are further described in, for example, Pappalarado *et al.*, *Sem. Radiation Oncol.* (1998) *8*:217; and Ramsay *Nature Biotechnol.* (1998) *16*:40.

Differential Expression in Diagnosis

The polynucleotides of the invention can also be used to detect differences in expression levels between two cells, *e.g.*, as a method to identify abnormal or diseased tissue in a human. For polynucleotides corresponding to profiles of protein families, the choice of tissue can be selected according to the putative biological function. In general, the expression of a gene corresponding to a specific polynucleotide is compared between a first tissue that is suspected of being diseased and a second, normal tissue of the human. The tissue suspected of being abnormal or diseased can be derived from a different tissue type of the human, but preferably it is derived from the same tissue type; for example an intestinal polyp or other abnormal growth should be compared with normal intestinal tissue. The normal tissue can be the same tissue as that of the test sample, or any normal tissue of the patient, especially those that express the polynucleotide-related gene of interest (*e.g.*, brain, thymus, testis, heart, prostate, placenta, spleen, small intestine, skeletal muscle, pancreas, and the mucosal lining of the colon). A difference between the polynucleotide-related gene, mRNA, or protein in the two tissues which are compared, for example in molecular weight, amino acid or nucleotide sequence, or relative abundance, indicates a change in the gene, or a gene which regulates it, in the tissue of the human that was suspected of being diseased. Examples of detection of differential expression and its use in diagnosis of cancer are described in USPNs 5,688,641 and 5,677,125.

A genetic predisposition to disease in a human can also be detected by comparing expression levels of an mRNA or protein corresponding to a polynucleotide of the invention in a fetal tissue with levels associated in normal fetal tissue. Fetal tissues that are used for this purpose include, but are not limited to, amniotic fluid, chorionic villi, blood, and the blastomere of an in vitro-fertilized embryo. The comparable normal polynucleotide-related gene is obtained from any tissue. The mRNA or protein is obtained from a normal tissue of a human in which the polynucleotide-related gene is expressed. Differences such as alterations in the nucleotide sequence

or size of the same product of the fetal polynucleotide-related gene or mRNA, or alterations in the molecular weight, amino acid sequence, or relative abundance of fetal protein, can indicate a germline mutation in the polynucleotide-related gene of the fetus, which indicates a genetic predisposition to disease. In general, diagnostic, prognostic, and other methods of the invention based on differential expression involve detection of a level or amount of a gene product, particularly a differentially expressed gene product, in a test sample obtained from a patient suspected of having or being susceptible to a disease (*e.g.*, breast cancer, lung cancer, colon cancer and/or metastatic forms thereof), and comparing the detected levels to those levels found in normal cells (*e.g.*, cells substantially unaffected by cancer) and/or other control cells (*e.g.*, to differentiate a cancerous cell from a cell affected by dysplasia). Furthermore, the severity of the disease can be assessed by comparing the detected levels of a differentially expressed gene product with those levels detected in samples representing the levels of differentially gene product associated with varying degrees of severity of disease. It should be noted that use of the term "diagnostic" herein is not necessarily meant to exclude "prognostic" or "prognosis," but rather is used as a matter of convenience.

The term "differentially expressed gene" is generally intended to encompass a polynucleotide that can, for example, include an open reading frame encoding a gene product (*e.g.*, a polypeptide), and/or introns of such genes and adjacent 5' and 3' non-coding nucleotide sequences involved in the regulation of expression, up to about 20 kb beyond the coding region, but possibly further in either direction. The gene can be introduced into an appropriate vector for extrachromosomal maintenance or for integration into a host genome. In general, a difference in expression level associated with a decrease in expression level of at least about 25%, usually at least about 50% to 75%, more usually at least about 90% or more is indicative of a differentially expressed gene of interest, *i.e.*, a gene that is underexpressed or down-regulated in the test sample relative to a control sample. Furthermore, a difference in expression level associated with an increase in expression of at least about 25%, usually at least about 50% to 75%, more usually at least about 90% and can be at least about 1 ½-fold, usually at least about 2-fold to about 10-fold, and can be about 100-fold to about 1,000-fold increase relative to a control sample is indicative of a differentially expressed gene of interest, *i.e.*, an overexpressed or up-regulated gene.

"Differentially expressed polynucleotide" as used herein means a nucleic acid molecule (RNA or DNA) comprising a sequence that represents a differentially expressed gene, *e.g.*, the differentially expressed polynucleotide comprises a sequence (*e.g.*, an open reading frame encoding a gene product) that uniquely identifies a differentially expressed gene so that detection of the differentially expressed polynucleotide in a sample is correlated with the presence of a differentially expressed gene in a sample. "Differentially expressed polynucleotides" is also meant to encompass

fragments of the disclosed polynucleotides, *e.g.*, fragments retaining biological activity, as well as nucleic acids homologous, substantially similar, or substantially identical (*e.g.*, having about 90% sequence identity) to the disclosed polynucleotides.

"Diagnosis" as used herein generally includes determination of a subject's susceptibility to a disease or disorder, determination as to whether a subject is presently affected by a disease or disorder, as well as to the prognosis of a subject affected by a disease or disorder (*e.g.*, identification of pre-metastatic or metastatic cancerous states, stages of cancer, or responsiveness of cancer to therapy). The present invention particularly encompasses diagnosis of subjects in the context of breast cancer (*e.g.*, carcinoma in situ (*e.g.*, ductal carcinoma in situ), estrogen receptor (ER)-positive breast cancer, ER-negative breast cancer, or other forms and/or stages of breast cancer), lung cancer (*e.g.*, small cell carcinoma, non-small cell carcinoma, mesothelioma, and other forms and/or stages of lung cancer), and colon cancer (*e.g.*, adenomatous polyp, colorectal carcinoma, and other forms and/or stages of colon cancer).

"Sample" or "biological sample" as used throughout here are generally meant to refer to samples of biological fluids or tissues, particularly samples obtained from tissues, especially from cells of the type associated with the disease for which the diagnostic application is designed (*e.g.*, ductal adenocarcinoma), and the like. "Samples" is also meant to encompass derivatives and fractions of such samples (*e.g.*, cell lysates). Where the sample is solid tissue, the cells of the tissue can be dissociated or tissue sections can be analyzed.

Methods of the subject invention useful in diagnosis or prognosis typically involve comparison of the abundance of a selected differentially expressed gene product in a sample of interest with that of a control to determine any relative differences in the expression of the gene product, where the difference can be measured qualitatively and/or quantitatively. Quantitation can be accomplished, for example, by comparing the level of expression product detected in the sample with the amounts of product present in a standard curve. A comparison can be made visually; by using a technique such as densitometry, with or without computerized assistance; by preparing a representative library of cDNA clones of mRNA isolated from a test sample, sequencing the clones in the library to determine that number of cDNA clones corresponding to the same gene product, and analyzing the number of clones corresponding to that same gene product relative to the number of clones of the same gene product in a control sample; or by using an array to detect relative levels of hybridization to a selected sequence or set of sequences, and comparing the hybridization pattern to that of a control. The differences in expression are then correlated with the presence or absence of an abnormal expression pattern. A variety of different methods for determining the nucleic acid abundance in a sample are known to those of skill in the art (see, e.g., WO 97/27317). In general, diagnostic assays of the invention involve detection of a gene product of a the polynucleotide

sequence (*e.g.*, mRNA or polypeptide) that corresponds to a sequence of SEQ ID NOS:1-2707 . The patient from whom the sample is obtained can be apparently healthy, susceptible to disease (*e.g.*, as determined by family history or exposure to certain environmental factors), or can already be identified as having a condition in which altered expression of a gene product of the invention is implicated.

Diagnosis can be determined based on detected gene product expression levels of a gene product encoded by at least one, preferably at least two or more, at least 3 or more, or at least 4 or more of the polynucleotides having a sequence set forth in SEQ ID NOS:1-2707 , and can involve detection of expression of genes corresponding to all of SEQ ID NOS:1-2707 and/or additional sequences that can serve as additional diagnostic markers and/or reference sequences. Where the diagnostic method is designed to detect the presence or susceptibility of a patient to cancer, the assay preferably involves detection of a gene product encoded by a gene corresponding to a polynucleotide that is differentially expressed in cancer. Examples of such differentially expressed polynucleotides are described in the Examples below. Given the provided polynucleotides and information regarding their relative expression levels provided herein, assays using such polynucleotides and detection of their expression levels in diagnosis and prognosis will be readily apparent to the ordinarily skilled artisan.

Any of a variety of detectable labels can be used in connection with the various embodiments of the diagnostic methods of the invention. Suitable detectable labels include fluorochromes,(*e.g.* fluorescein isothiocyanate (FITC), rhodamine, Texas Red, phycoerythrin, allophycocyanin, 6-carboxyfluorescein (6-FAM), 2',7'-dimethoxy-4',5'-dichloro-6-carboxyfluorescein, 6-carboxy-X-rhodamine (ROX), 6-carboxy-2',4',7',4,7-hexachlorofluorescein (HEX), 5-carboxyfluorescein (5-FAM) or N,N,N',N'-tetramethyl-6-carboxyrhodamine (TAMRA)), radioactive labels, (*e.g.* ^{32}P, ^{35}S, ^{3}H, *etc.*), and the like. The detectable label can involve a two stage systems (*e.g.*, biotin-avidin, hapten-anti-hapten antibody, *etc.*)

Reagents specific for the polynucleotides and polypeptides of the invention, such as antibodies and nucleotide probes, can be supplied in a kit for detecting the presence of an expression product in a biological sample. The kit can also contain buffers or labeling components, as well as instructions for using the reagents to detect and quantify expression products in the biological sample. Exemplary embodiments of the diagnostic methods of the invention are described below in more detail.

<u>Polypeptide detection in diagnosis.</u> In one embodiment, the test sample is assayed for the level of a differentially expressed polypeptide. Diagnosis can be accomplished using any of a number of methods to determine the absence or presence or altered amounts of the differentially expressed polypeptide in the test sample. For example, detection can utilize staining of cells or

histological sections with labeled antibodies. performed in accordance with conventional methods. Cells can be permeabilized to stain cytoplasmic molecules. In general. antibodies that specifically bind a differentially expressed polypeptide of the invention are added to a sample. and incubated for a period of time sufficient to allow binding to the epitope. usually at least about 10 minutes. The antibody can be detectably labeled for direct detection (*e.g.*, using radioisotopes. enzymes. fluorescers. chemiluminescers. and the like). or can be used in conjunction with a second stage antibody or reagent to detect binding (*e.g.*, biotin with horseradish peroxidase-conjugated avidin. a secondary antibody conjugated to a fluorescent compound. *e.g.* fluorescein. rhodamine. Texas red. *etc.*). The absence or presence of antibody binding can be determined by various methods. including flow cytometry of dissociated cells. microscopy. radiography. scintillation counting. *etc.* Any suitable alternative methods can of qualitative or quantitative detection of levels or amounts of differentially expressed polypeptide can be used. for example ELISA. western blot. immunoprecipitation. radioimmunoassay. etc.

<u>mRNA detection.</u> The diagnostic methods of the invention can also or alternatively involve detection of mRNA encoded by a gene corresponding to a differentially expressed polynucleotides of the invention. Any suitable qualitative or quantitative methods known in the art for detecting specific mRNAs can be used. mRNA can be detected by. for example. *in situ* hybridization in tissue sections. by reverse transcriptase-PCR. or in Northern blots containing poly A+ mRNA. One of skill in the art can readily use these methods to determine differences in the size or amount of mRNA transcripts between two samples. mRNA expression levels in a sample can also be determined by generation of a library of expressed sequence tags (ESTs) from the sample. where the EST library is representative of sequences present in the sample (Adams. et al., (1991) *Science* 252:1651). Enumeration of the relative representation of ESTs within the library can be used to approximate the relative representation of the gene transcript within the starting sample. The results of EST analysis of a test sample can then be compared to EST analysis of a reference sample to determine the relative expression levels of a selected polynucleotide, particularly a polynucleotide corresponding to one or more of the differentially expressed genes described herein. Alternatively. gene expression in a test sample can be performed using serial analysis of gene expression (SAGE) methodology (e.g., Velculescu et al., *Science* (1995) *270*:484) or differential display (DD) methodology (see. *e.g.*, U.S. 5.776.683; and U.S. 5.807.680).

Alternatively. gene expression can be analyzed using hybridization analysis. Oligonucleotides or cDNA can be used to selectively identify or capture DNA or RNA of specific sequence composition. and the amount of RNA or cDNA hybridized to a known capture sequence determined qualitatively or quantitatively, to provide information about the relative representation of a particular message within the pool of cellular messages in a sample. Hybridization analysis can be

designed to allow for concurrent screening of the relative expression of hundreds to thousands of genes by using, for example, array-based technologies having high density formats, including filters, microscope slides, or microchips, or solution-based technologies that use spectroscopic analysis (*e.g.*, mass spectrometry). One exemplary use of arrays in the diagnostic methods of the invention is described below in more detail.

Use of a single gene in diagnostic applications. The diagnostic methods of the invention can focus on the expression of a single differentially expressed gene. For example, the diagnostic method can involve detecting a differentially expressed gene, or a polymorphism of such a gene (*e.g.*, a polymorphism in an coding region or control region), that is associated with disease. Disease-associated polymorphisms can include deletion or truncation of the gene, mutations that alter expression level and/or affect activity of the encoded protein, *etc.*

A number of methods are available for analyzing nucleic acids for the presence of a specific sequence, *e.g.* a disease associated polymorphism. Where large amounts of DNA are available, genomic DNA is used directly. Alternatively, the region of interest is cloned into a suitable vector and grown in sufficient quantity for analysis. Cells that express a differentially expressed gene can be used as a source of mRNA, which can be assayed directly or reverse transcribed into cDNA for analysis. The nucleic acid can be amplified by conventional techniques, such as the polymerase chain reaction (PCR), to provide sufficient amounts for analysis, and a detectable label can be included in the amplification reaction (*e.g.*, using a detectably labeled primer or detectably labeled oligonucleotides) to facilitate detection. Alternatively, various methods are also known in the art that utilize oligonucleotide ligation as a means of detecting polymorphisms, see e.g., Riley *et al.*, *Nucl. Acids Res.* (1990) *18*:2887; and Delahunty *et al.*, *Am. J. Hum. Genet.* (1996) *58*:1239.

The amplified or cloned sample nucleic acid can be analyzed by one of a number of methods known in the art. The nucleic acid can be sequenced by dideoxy or other methods, and the sequence of bases compared to a selected sequence, *e.g.*, to a wild-type sequence. Hybridization with the polymorphic or variant sequence can also be used to determine its presence in a sample (*e.g.*, by Southern blot, dot blot, *etc.*). The hybridization pattern of a polymorphic or variant sequence and a control sequence to an array of oligonucleotide probes immobilized on a solid support, as described in US 5,445,934, or in WO 95/35505, can also be used as a means of identifying polymorphic or variant sequences associated with disease. Single strand conformational polymorphism (SSCP) analysis, denaturing gradient gel electrophoresis (DGGE), and heteroduplex analysis in gel matrices are used to detect conformational changes created by DNA sequence variation as alterations in electrophoretic mobility. Alternatively, where a polymorphism creates or destroys a recognition site for a restriction endonuclease, the sample is digested with that endonuclease, and the products size

fractionated to determine whether the fragment was digested. Fractionation is performed by gel or capillary electrophoresis, particularly acrylamide or agarose gels.

Screening for mutations in a gene can be based on the functional or antigenic characteristics of the protein. Protein truncation assays are useful in detecting deletions that can affect the biological activity of the protein. Various immunoassays designed to detect polymorphisms in proteins can be used in screening. Where many diverse genetic mutations lead to a particular disease phenotype, functional protein assays have proven to be effective screening tools. The activity of the encoded protein can be determined by comparison with the wild-type protein.

Pattern matching in diagnosis using arrays. In another embodiment, the diagnostic and/or prognostic methods of the invention involve detection of expression of a selected set of genes in a test sample to produce a test expression pattern (TEP). The TEP is compared to a reference expression pattern (REP), which is generated by detection of expression of the selected set of genes in a reference sample (*e.g.*, a positive or negative control sample). The selected set of genes includes at least one of the genes of the invention, which genes correspond to the polynucleotide sequences of SEQ ID NOS:1-2707 . Of particular interest is a selected set of genes that includes gene differentially expressed in the disease for which the test sample is to be screened.

"Reference sequences" or "reference polynucleotides" as used herein in the context of differential gene expression analysis and diagnosis/prognosis refers to a selected set of polynucleotides, which selected set includes at least one or more of the differentially expressed polynucleotides described herein. A plurality of reference sequences, preferably comprising positive and negative control sequences, can be included as reference sequences. Additional suitable reference sequences are found in GenBank, Unigene, and other nucleotide sequence databases (including, *e.g.*, expressed sequence tag (EST), partial, and full-length sequences).

"Reference array" means an array having reference sequences for use in hybridization with a sample, where the reference sequences include all, at least one of, or any subset of the differentially expressed polynucleotides described herein. Usually such an array will include at least 3 different reference sequences, and can include any one or all of the provided differentially expressed sequences. Arrays of interest can further comprise sequences, including polymorphisms, of other genetic sequences, particularly other sequences of interest for screening for a disease or disorder (*e.g.*, cancer, dysplasia, or other related or unrelated diseases, disorders, or conditions). The oligonucleotide sequence on the array will usually be at least about 12 nt in length, and can be of about the length of the provided sequences, or can extend into the flanking regions to generate fragments of 100 nt to 200 nt in length or more. Reference arrays can be produced according to any suitable methods known in the art. For example, methods of producing large arrays of oligonucleotides are described in U.S. 5,134,854, and U.S. 5,445,934 using light-directed synthesis

techniques. Using a computer controlled system, a heterogeneous array of monomers is converted, through simultaneous coupling at a number of reaction sites, into a heterogeneous array of polymers. Alternatively, microarrays are generated by deposition of pre-synthesized oligonucleotides onto a solid substrate, for example as described in PCT published application no. WO 95/35505.

A "reference expression pattern" or "REP" as used herein refers to the relative levels of expression of a selected set of genes, particularly of differentially expressed genes, that is associated with a selected cell type, *e.g.*, a normal cell, a cancerous cell, a cell exposed to an environmental stimulus, and the like. A "test expression pattern" or "TEP" refers to relative levels of expression of a selected set of genes, particularly of differentially expressed genes, in a test sample (*e.g.*, a cell of unknown or suspected disease state, from which mRNA is isolated).

REPs can be generated in a variety of ways according to methods well known in the art. For example, REPs can be generated by hybridizing a control sample to an array having a selected set of polynucleotides (particularly a selected set of differentially expressed polynucleotides), acquiring the hybridization data from the array, and storing the data in a format that allows for ready comparison of the REP with a TEP. Alternatively, all expressed sequences in a control sample can be isolated and sequenced, *e.g.*, by isolating mRNA from a control sample, converting the mRNA into cDNA, and sequencing the cDNA. The resulting sequence information roughly or precisely reflects the identity and relative number of expressed sequences in the sample. The sequence information can then be stored in a format (*e.g.*, a computer-readable format) that allows for ready comparison of the REP with a TEP. The REP can be normalized prior to or after data storage, and/or can be processed to selectively remove sequences of expressed genes that are of less interest or that might complicate analysis (*e.g.*, some or all of the sequences associated with housekeeping genes can be eliminated from REP data).

TEPs can be generated in a manner similar to REPs, *e.g.*, by hybridizing a test sample to an array having a selected set of polynucleotides, particularly a selected set of differentially expressed polynucleotides, acquiring the hybridization data from the array, and storing the data in a format that allows for ready comparison of the TEP with a REP. The REP and TEP to be used in a comparison can be generated simultaneously, or the TEP can be compared to previously generated and stored REPs.

In one embodiment of the invention, comparison of a TEP with a REP involves hybridizing a test sample with a reference array, where the reference array has one or more reference sequences for use in hybridization with a sample. The reference sequences include all, at least one of, or any subset of the differentially expressed polynucleotides described herein. Hybridization data for the test sample is acquired, the data normalized, and the produced TEP compared with a REP generated using an array having the same or similar selected set of differentially expressed polynucleotides.

Probes that correspond to sequences differentially expressed between the two samples will show decreased or increased hybridization efficiency for one of the samples relative to the other.

Methods for collection of data from hybridization of samples with a reference arrays are well known in the art. For example, the polynucleotides of the reference and test samples can be generated using a detectable fluorescent label, and hybridization of the polynucleotides in the samples detected by scanning the microarrays for the presence of the detectable label using, for example, a microscope and light source for directing light at a substrate. A photon counter detects fluorescence from the substrate, while an x-y translation stage varies the location of the substrate. A confocal detection device that can be used in the subject methods is described in USPN 5,631,734. A scanning laser microscope is described in Shalon et al., *Genome Res.* (1996) *6*:639. A scan, using the appropriate excitation line, is performed for each fluorophore used. The digital images generated from the scan are then combined for subsequent analysis. For any particular array element, the ratio of the fluorescent signal from one sample (*e.g.*, a test sample) is compared to the fluorescent signal from another sample (*e.g.*, a reference sample), and the relative signal intensity determined.

Methods for analyzing the data collected from hybridization to arrays are well known in the art. For example, where detection of hybridization involves a fluorescent label, data analysis can include the steps of determining fluorescent intensity as a function of substrate position from the data collected, removing outliers, *i.e.* data deviating from a predetermined statistical distribution, and calculating the relative binding affinity of the targets from the remaining data. The resulting data can be displayed as an image with the intensity in each region varying according to the binding affinity between targets and probes.

In general, the test sample is classified as having a gene expression profile corresponding to that associated with a disease or non-disease state by comparing the TEP generated from the test sample to one or more REPs generated from reference samples (*e.g.*, from samples associated with cancer or specific stages of cancer, dysplasia, samples affected by a disease other than cancer, normal samples, *etc.*). The criteria for a match or a substantial match between a TEP and a REP include expression of the same or substantially the same set of reference genes, as well as expression of these reference genes at substantially the same levels (*e.g.*, no significant difference between the samples for a signal associated with a selected reference sequence after normalization of the samples, or at least no greater than about 25% to about 40% difference in signal strength for a given reference sequence. In general, a pattern match between a TEP and a REP includes a match in expression, preferably a match in qualitative or quantitative expression level, of at least one of, all or any subset of the differentially expressed genes of the invention.

Pattern matching can be performed manually, or can be performed using a computer program. Methods for preparation of substrate matrices (*e.g.*, arrays), design of oligonucleotides for use with such matrices, labeling of probes, hybridization conditions, scanning of hybridized matrices, and analysis of patterns generated, including comparison analysis, are described in, for example, U.S. 5,800,992.

Diagnosis, Prognosis and Management of Cancer

The polynucleotides of the invention and their gene products are of particular interest as genetic or biochemical markers (e.g., in blood or tissues) that will detect the earliest changes along the carcinogenesis pathway and/or to monitor the efficacy of various therapies and preventive interventions. For example, the level of expression of certain polynucleotides can be indicative of a poorer prognosis, and therefore warrant more aggressive chemo- or radio-therapy for a patient or vice versa. The correlation of novel surrogate tumor specific features with response to treatment and outcome in patients can define prognostic indicators that allow the design of tailored therapy based on the molecular profile of the tumor. These therapies include antibody targeting and gene therapy. Determining expression of certain polynucleotides and comparison of a patients profile with known expression in normal tissue and variants of the disease allows a determination of the best possible treatment for a patient, both in terms of specificity of treatment and in terms of comfort level of the patient. Surrogate tumor markers, such as polynucleotide expression, can also be used to better classify, and thus diagnose and treat, different forms and disease states of cancer. Two classifications widely used in oncology that can benefit from identification of the expression levels of the polynucleotides of the invention are staging of the cancerous disorder, and grading the nature of the cancerous tissue.

The polynucleotides of the invention can be useful to monitor patients having or susceptible to cancer to detect potentially malignant events at a molecular level before they are detectable at a gross morphological level. Furthermore, a polynucleotide of the invention identified as important for one type of cancer can also have implications for development or risk of development of other types of cancer, e.g., where a polynucleotide is differentially expressed across various cancer types. Thus, for example, expression of a polynucleotide that has clinical implications for metastatic colon cancer can also have clinical implications for stomach cancer or endometrial cancer.

Staging. Staging is a process used by physicians to describe how advanced the cancerous state is in a patient. Staging assists the physician in determining a prognosis, planning treatment and evaluating the results of such treatment. Staging systems vary with the types of cancer, but generally involve the following "TNM" system: the type of tumor, indicated by T; whether the cancer has metastasized to nearby lymph nodes, indicated by N; and whether the cancer has metastasized to more distant parts of the body, indicated by M. Generally, if a cancer is only detectable in the area

of the primary lesion without having spread to any lymph nodes it is called Stage I. If it has spread only to the closest lymph nodes. it is called Stage II. In Stage III. the cancer has generally spread to the lymph nodes in near proximity to the site of the primary lesion. Cancers that have spread to a distant part of the body. such as the liver. bone. brain or other site. are Stage IV. the most advanced stage.

The polynucleotides of the invention can facilitate fine-tuning of the staging process by identifying markers for the aggresivity of a cancer. *e.g.* the metastatic potential. as well as the presence in different areas of the body. Thus, a Stage II cancer with a polynucleotide signifying a high metastatic potential cancer can be used to change a borderline Stage II tumor to a Stage III tumor. justifying more aggressive therapy. Conversely. the presence of a polynucleotide signifying a lower metastatic potential allows more conservative staging of a tumor.

Grading of cancers. Grade is a term used to describe how closely a tumor resembles normal tissue of its same type. The microscopic appearance of a tumor is used to identify tumor grade based on parameters such as cell morphology. cellular organization, and other markers of differentiation. As a general rule, the grade of a tumor corresponds to its rate of growth or aggressiveness, with undifferentiated or high-grade tumors being more aggressive than well differentiated or low-grade tumors. The following guidelines are generally used for grading tumors: 1) GX Grade cannot be assessed: 2) G1 Well differentiated: G2 Moderately well differentiated: 3) G3 Poorly differentiated; 4) G4 Undifferentiated. The polynucleotides of the invention can be especially valuable in determining the grade of the tumor, as they not only can aid in determining the differentiation status of the cells of a tumor, they can also identify factors other than differentiation that are valuable in determining the aggressiveness of a tumor, such as metastatic potential.

Detection of lung cancer. The polynucleotides of the invention can be used to detect lung cancer in a subject. Although there are more than a dozen different kinds of lung cancer, the two main types of lung cancer are small cell and nonsmall cell, which encompass about 90% of all lung cancer cases. Small cell carcinoma (also called oat cell carcinoma) usually starts in one of the larger bronchial tubes. grows fairly rapidly, and is likely to be large by the time of diagnosis. Nonsmall cell lung cancer (NSCLC) is made up of three general subtypes of lung cancer. Epidermoid carcinoma (also called squamous cell carcinoma) usually starts in one of the larger bronchial tubes and grows relatively slowly. The size of these tumors can range from very small to quite large. Adenocarcinoma starts growing near the outside surface of the lung and can vary in both size and growth rate. Some slowly growing adenocarcinomas are described as alveolar cell cancer. Large cell carcinoma starts near the surface of the lung, grows rapidly, and the growth is usually fairly large when diagnosed. Other less common forms of lung cancer are carcinoid. cylindroma, mucoepidermoid. and malignant mesothelioma.

The polynucleotides of the invention. e.g.. polynucleotides differentially expressed in normal cells versus cancerous lung cells (e.g.. tumor cells of high or low metastatic potential) or between types of cancerous lung cells (e.g.. high metastatic versus low metastatic). can be used to distinguish types of lung cancer as well as identifying traits specific to a certain patient's cancer and selecting an appropriate therapy. For example. if the patient's biopsy expresses a polynucleotide that is associated with a low metastatic potential. it may justify leaving a larger portion of the patient's lung in surgery to remove the lesion. Alternatively. a smaller lesion with expression of a polynucleotide that is associated with high metastatic potential may justify a more radical removal of lung tissue and/or the surrounding lymph nodes. even if no metastasis can be identified through pathological examination.

Detection of breast cancer. The majority of breast cancers are adenocarcinomas subtypes. which can be summarized as follows: 1) ductal carcinoma in situ (DCIS). including comedocarcinoma: 2) infiltrating (or invasive) ductal carcinoma (IDC): 3) lobular carcinoma in situ (LCIS): 4) infiltrating (or invasive) lobular carcinoma (ILC): 5) inflammatory breast cancer: 6) medullary carcinoma: 7) mucinous carcinoma: 8) Paget's disease of the nipple: 9) Phyllodes tumor: and 10) tubular carcinoma:

The expression of polynucleotides of the invention can be used in the diagnosis and management of breast cancer. as well as to distinguish between types of breast cancer. Detection of breast cancer can be determined using expression levels of any of the appropriate polynucleotides of the invention. either alone or in combination. Determination of the aggressive nature and/or the metastatic potential of a breast cancer can also be determined by comparing levels of one or more polynucleotides of the invention and comparing levels of another sequence known to vary in cancerous tissue. *e.g.* ER expression. In addition. development of breast cancer can be detected by examining the ratio of expression of a differentially expressed polynucleotide to the levels of steroid hormones (*e.g.*, testosterone or estrogen) or to other hormones (*e.g.*, growth hormone. insulin). Thus expression of specific marker polynucleotides can be used to discriminate between normal and cancerous breast tissue. to discriminate between breast cancers with different cells of origin. to discriminate between breast cancers with different potential metastatic rates. etc.

Detection of colon cancer. The polynucleotides of the invention exhibiting the appropriate expression pattern can be used to detect colon cancer in a subject. Colorectal cancer is one of the most common neoplasms in humans and perhaps the most frequent form of hereditary neoplasia. Prevention and early detection are key factors in controlling and curing colorectal cancer. Colorectal cancer begins as polyps. which are small. benign growths of cells that form on the inner lining of the colon. Over a period of several years. some of these polyps accumulate additional mutations and become cancerous. Multiple familial colorectal cancer disorders have been identified.

which are summarized as follows: 1) Familial adenomatous polyposis (FAP); 2) Gardner's syndrome; 3) Hereditary nonpolyposis colon cancer (HNPCC); and 4) Familial colorectal cancer in Ashkenazi Jews. The expression of appropriate polynucleotides of the invention can be used in the diagnosis, prognosis and management of colorectal cancer. Detection of colon cancer can be determined using expression levels of any of these sequences alone or in combination with the levels of expression. Determination of the aggressive nature and/or the metastatic potential of a colon cancer can be determined by comparing levels of one or more polynucleotides of the invention and comparing total levels of another sequence known to vary in cancerous tissue, *e.g.*, expression of p53, DCC ras, lor FAP (see, e.g., Fearon ER, *et al.*, *Cell* (1990) *61(5)*:759; Hamilton SR *et al.*, *Cancer* (1993) *72*:957; Bodmer W, *et al.*, *Nat Genet.* (1994) *4(3)*:217; Fearon ER, *Ann N Y Acad Sci.* (1995) *768*:101). For example, development of colon cancer can be detected by examining the ratio of any of the polynucleotides of the invention to the levels of oncogenes (*e.g.* ras) or tumor suppressor genes (*e.g.* FAP or p53). Thus expression of specific marker polynucleotides can be used to discriminate between normal and cancerous colon tissue, to discriminate between colon cancers with different cells of origin, to discriminate between colon cancers with different potential metastatic rates, etc.

Use of Polynucleotides to Screen for Peptide Analogs and Antagonists

Polypeptides encoded by the instant polynucleotides and corresponding full length genes can be used to screen peptide libraries to identify binding partners, such as receptors, from among the encoded polypeptides. Peptide libraries can be synthesized according to methods known in the art (see, e.g., USPN 5,010,175, and WO 91/17823). Agonists or antagonists of the polypeptides if the invention can be screened using any available method known in the art, such as signal transduction, antibody binding, receptor binding, mitogenic assays, chemotaxis assays, etc. The assay conditions ideally should resemble the conditions under which the native activity is exhibited *in vivo*, that is, under physiologic pH, temperature, and ionic strength. Suitable agonists or antagonists will exhibit strong inhibition or enhancement of the native activity at concentrations that do not cause toxic side effects in the subject. Agonists or antagonists that compete for binding to the native polypeptide can require concentrations equal to or greater than the native concentration, while inhibitors capable of binding irreversibly to the polypeptide can be added in concentrations on the order of the native concentration.

Such screening and experimentation can lead to identification of a novel polypeptide binding partner, such as a receptor, encoded by a gene or a cDNA corresponding to a polynucleotide of the invention, and at least one peptide agonist or antagonist of the novel binding partner. Such agonists and antagonists can be used to modulate, enhance, or inhibit receptor function in cells to which the receptor is native, or in cells that possess the receptor as a result of genetic engineering.

Further, if the novel receptor shares biologically important characteristics with a known receptor, information about agonist/antagonist binding can facilitate development of improved agonists/antagonists of the known receptor.

Pharmaceutical Compositions and Therapeutic Uses

Pharmaceutical compositions of the invention can comprise polypeptides, antibodies, or polynucleotides (including antisense nucleotides and ribozymes) of the claimed invention in a therapeutically effective amount. The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also include reduction in physical symptoms, such as decreased body temperature. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation is determined by routine experimentation and is within the judgment of the clinician. For purposes of the present invention, an effective dose will generally be from about 0.01 mg/ kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the DNA constructs in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which can be administered without undue toxicity. Suitable carriers can be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art. Pharmaceutically acceptable carriers in therapeutic compositions can include liquids such as water, saline, glycerol and ethanol. Auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, can also be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection can also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier. Pharmaceutically acceptable salts can also be present in the pharmaceutical composition, e.g., mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough

discussion of pharmaceutically acceptable excipients is available in *Remington's Pharmaceutical Sciences* (Mack Pub. Co., N.J. 1991).

Delivery Methods. Once formulated, the compositions of the invention can be (1) administered directly to the subject (*e.g.*, as polynucleotide or polypeptides); or (2) delivered ex vivo, to cells derived from the subject (*e.g.*, as in *ex vivo* gene therapy). Direct delivery of the compositions will generally be accomplished by parenteral injection, e.g., subcutaneously, intraperitoneally, intravenously or intramuscularly, intratumoral or to the interstitial space of a tissue. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal applications, needles, and gene guns or hyposprays. Dosage treatment can be a single dose schedule or a multiple dose schedule.

Methods for the ex vivo delivery and reimplantation of transformed cells into a subject are known in the art and described in *e.g.*, International Publication No. WO 93/14778. Examples of cells useful in ex vivo applications include, for example, stem cells, particularly hematopoetic, lymph cells, macrophages, dendritic cells, or tumor cells. Generally, delivery of nucleic acids for both ex vivo and in vitro applications can be accomplished by, for example, dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

Once a gene corresponding to a polynucleotide of the invention has been found to correlate with a proliferative disorder, such as neoplasia, dysplasia, and hyperplasia, the disorder can be amenable to treatment by administration of a therapeutic agent based on the provided polynucleotide, corresponding polypeptide or other corresponding molecule (e.g., antisense, ribozyme, etc.).

The dose and the means of administration of the inventive pharmaceutical compositions are determined based on the specific qualities of the therapeutic composition, the condition, age, and weight of the patient, the progression of the disease, and other relevant factors. For example, administration of polynucleotide therapeutic compositions agents of the invention includes local or systemic administration, including injection, oral administration, particle gun or catheterized administration, and topical administration. Preferably, the therapeutic polynucleotide composition contains an expression construct comprising a promoter operably linked to a polynucleotide of at least 12, 22, 25, 30, or 35 contiguous nt of the polynucleotide disclosed herein. Various methods can be used to administer the therapeutic composition directly to a specific site in the body. For example, a small metastatic lesion is located and the therapeutic composition injected several times in several different locations within the body of tumor. Alternatively, arteries which serve a tumor are identified, and the therapeutic composition injected into such an artery, in order to deliver the

composition directly into the tumor. A tumor that has a necrotic center is aspirated and the composition injected directly into the now empty center of the tumor. The antisense composition is directly administered to the surface of the tumor, for example, by topical application of the composition. X-ray imaging is used to assist in certain of the above delivery methods.

Receptor-mediated targeted delivery of therapeutic compositions containing an antisense polynucleotide, subgenomic polynucleotides, or antibodies to specific tissues can also be used. Receptor-mediated DNA delivery techniques are described in, for example, Findeis *et al.*, *Trends Biotechnol.* (1993) *11*:202; Chiou *et al.*, *Gene Therapeutics: Methods And Applications Of Direct Gene Transfer* (J.A. Wolff, ed.) (1994); Wu *et al.*, *J. Biol. Chem.* (1988) *263*:621; Wu *et al.*, *J. Biol. Chem.* (1994) *269*:542; Zenke *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1990) *87*:3655; Wu *et al.*, *J. Biol. Chem.* (1991) *266*:338. Therapeutic compositions containing a polynucleotide are administered in a range of about 100 ng to about 200 mg of DNA for local administration in a gene therapy protocol. Concentration ranges of about 500 ng to about 50 mg, about 1 g to about 2 mg, about 5 g to about 500 g, and about 20 g to about 100 g of DNA can also be used during a gene therapy protocol. Factors such as method of action (e.g., for enhancing or inhibiting levels of the encoded gene product) and efficacy of transformation and expression are considerations which will affect the dosage required for ultimate efficacy of the antisense subgenomic polynucleotides. Where greater expression is desired over a larger area of tissue, larger amounts of antisense subgenomic polynucleotides or the same amounts readministered in a successive protocol of administrations, or several administrations to different adjacent or close tissue portions of, for example, a tumor site, may be required to effect a positive therapeutic outcome. In all cases, routine experimentation in clinical trials will determine specific ranges for optimal therapeutic effect. For polynucleotide-related genes encoding polypeptides or proteins with anti-inflammatory activity, suitable use, doses, and administration are described in USPN 5,654,173.

The therapeutic polynucleotides and polypeptides of the present invention can be delivered using gene delivery vehicles. The gene delivery vehicle can be of viral or non-viral origin (see generally, Jolly, *Cancer Gene Therapy* (1994) *1*:51; Kimura, *Human Gene Therapy* (1994) *5*:845; Connelly, *Human Gene Therapy* (1995) *1*:185; and Kaplitt, *Nature Genetics* (1994) *6*:148). Expression of such coding sequences can be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence can be either constitutive or regulated.

Viral-based vectors for delivery of a desired polynucleotide and expression in a desired cell are well known in the art. Exemplary viral-based vehicles include, but are not limited to, recombinant retroviruses (see, e.g., WO 90/07936; WO 94/03622; WO 93/25698; WO 93/25234; USPN 5, 219,740; WO 93/11230; WO 93/10218; USPN 4,777,127; GB Patent No. 2,200,651; EP 0 345 242; and WO 91/02805), alphavirus-based vectors (e.g., Sindbis virus vectors, Semliki forest

virus (ATCC VR-67: ATCC VR-1247). Ross River virus (ATCC VR-373: ATCC VR-1246) and Venezuelan equine encephalitis virus (ATCC VR-923: ATCC VR-1250: ATCC VR 1249: ATCC VR-532). and adeno-associated virus (AAV) vectors (see. e.g., WO 94/12649. WO 93/03769: WO 93/19191: WO 94/28938: WO 95/11984 and WO 95/00655). Administration of DNA linked to killed adenovirus as described in Curiel. *Hum. Gene Ther.* (1992) *3*:147 can also be employed.

Non-viral delivery vehicles and methods can also be employed. including. but not limited to, polycationic condensed DNA linked or unlinked to killed adenovirus alone (see. e.g.. Curiel, *Hum. Gene Ther.* (1992) *3*:147); ligand-linked DNA(see, e.g., Wu, *J. Biol. Chem.* (1989) *264*:16985); eukaryotic cell delivery vehicles cells (see. e.g.. USPN 5.814.482: WO 95/07994: WO 96/17072; WO 95/30763: and WO 97/42338) and nucleic charge neutralization or fusion with cell membranes. Naked DNA can also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and USPN 5.580.859. Liposomes that can act as gene delivery vehicles are described in USPN 5.422.120: WO 95/13796: WO 94/23697: WO 91/14445: and EP 0524968. Additional approaches are described in Philip. *Mol. Cell Biol.* (1994) *14*:2411. and in Woffendin. *Proc. Natl. Acad. Sci.* (1994) *91*:1581

Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al.*, *Proc. Natl. Acad. Sci. USA* (1994) *91*(24):11581. Moreover, the coding sequence and the product of expression of such can be delivered through deposition of photopolymerized hydrogel materials or use of ionizing radiation (see. e.g., USPN 5.206.152 and WO 92/11033). Other conventional methods for gene delivery that can be used for delivery of the coding sequence include. for example. use of hand-held gene transfer particle gun (see. e.g., USPN 5.149.655): use of ionizing radiation for activating transferred gene (see. e.g., USPN 5.206,152 and WO 92/11033).

The present invention will now be illustrated by reference to the following examples which set forth particularly advantageous embodiments. However. it should be noted that these embodiments are illustrative and are not to be construed as restricting the invention in any way.

EXAMPLES

Example 1: Source of Biological Materials and Overview of Novel Polynucleotides Expressed by the Biological Materials

cDNA libraries were constructed from either human colon cancer cell line Km12L4-A (Morikawa. et al., *Cancer Research* (1988) *48*:6863) , KM12C (Morikawa et al. *Cancer Res.* (1988) *48*:1943-1948), or MDA-MB-231 (Brinkley et al. *Cancer Res.* (1980) *40*:3118-3129) was used to construct a cDNA library from mRNA isolated from the cells. Sequences expressed by these cell lines were isolated and analyzed: most sequences were about 275-300 nucleotides in length. The

KM12L4-A cell line is derived from the KM12C cell line. The KM12C cell line, which is poorly metastatic (low metastatic) was established in culture from a Dukes' stage B_2 surgical specimen (Morikawa *et al. Cancer Res.* (1988) *48*:6863). The KML4-A is a highly metastatic subline derived from KM12C (Yeatman *et al. Nucl. Acids. Res.* (1995) *23*:4007; Bao-Ling *et al. Proc. Annu. Meet. Am. Assoc. Cancer. Res.* (1995) *21*:3269). The KM12C and KM12C-derived cell lines (*e.g.*, KM12L4, KM12L4-A, *etc.*) are well-recognized in the art as a model cell line for the study of colon cancer (see, *e.g.*, Moriakawa *et al., supra*; Radinsky *et al. Clin. Cancer Res.* (1995) *1*:19; Yeatman *et al.*, (1995) *supra*; Yeatman *et al. Clin. Exp. Metastasis* (1996) *14*:246). The MDA-MB-231 cell line was originally isolated from pleural effusions (Cailleau, *J. Natl. Cancer. Inst.* (1974) *53*:661), is of high metastatic potential, and forms poorly differentiated adenocarcinoma grade II in nude mice consistent with breast carcinoma.

The sequences of the isolated polynucleotides were first masked to eliminate low complexity sequences using the XBLAST masking program (Claverie "Effective Large-Scale Sequence Similarity Searches." In: Computer Methods for Macromolecular Sequence Analysis, Doolittle, ed., *Meth. Enzymol.* 266:212-227 Academic Press, NY, NY (1996); see particularly Claverie, in "Automated DNA Sequencing and Analysis Techniques" Adams *et al.*, eds., Chap. 36, p. 267 Academic Press, San Diego, 1994 and Claverie *et al. Comput. Chem.* (1993) 17:191). Generally, masking does not influence the final search results, except to eliminate sequences of relative little interest due to their low complexity, and to eliminate multiple "hits" based on similarity to repetitive regions common to multiple sequences, e.g., Alu repeats. Masking resulted in the elimination of 43 sequences. The remaining sequences were then used in a BLASTN vs. GenBank search; sequences that exhibited greater than 70% overlap, 99% identity, and a p value of less than 1×10^{-40} were discarded. Sequences from this search also were discarded if the inclusive parameters were met, but the sequence was ribosomal or vector-derived.

The resulting sequences from the previous search were classified into three groups (1, 2 and 3 below) and searched in a BLASTX vs. NRP (non-redundant proteins) database search: (1) unknown (no hits in the GenBank search), (2) weak similarity (greater than 45% identity and p value of less than 1×10^{-5}), and (3) high similarity (greater than 60% overlap, greater than 80% identity, and p value less than 1×10^{-5}). Sequences having greater than 70% overlap, greater than 99% identity, and p value of less than 1×10^{-40} were discarded.

The remaining sequences were classified as unknown (no hits), weak similarity, and high similarity (parameters as above). Two searches were performed on these sequences. First, a BLAST vs. EST database search was performed and sequences with greater than 99% overlap,

greater than 99% similarity and a p value of less than 1×10^{-40} were discarded. Sequences with a p value of less than 1×10^{-65} when compared to a database sequence of human origin were also excluded. Second, a BLASTN vs. Patent GeneSeq database was performed and sequences having greater than 99% identity, p value less than 1×10^{-40}, and greater than 99% overlap were discarded.

The remaining sequences were subjected to screening using other rules and redundancies in the dataset. Sequences with a p value of less than 1×10^{-111} in relation to a database sequence of human origin were specifically excluded. The final result provided the 1,565 sequences listed as SEQ ID NOS:1-1565 in the accompanying Sequence Listing and summarized in Table 1A (inserted prior to claims). Each identified polynucleotide represents sequence from at least a partial mRNA transcript.

Table 1A provides: 1) the SEQ ID NO assigned to each sequence for use in the present specification; 2) the filing date of the U.S. priority application in which the sequence was first filed; 3) the attorney docket number assigned to the priority application (for internal use); 4) the SEQ ID NO assigned to the sequence in the priority application; 5) the sequence name used as an internal identifier of the sequence; and 6) the name assigned to the clone from which the sequence was isolated. Because the provided polynucleotides represent partial mRNA transcripts, two or more polynucleotides of the invention may represent different regions of the same mRNA transcript and the same gene. Thus, if two or more SEQ ID NOS: are identified as belonging to the same clone, then either sequence can be used to obtain the full-length mRNA or gene.

In order to confirm the sequences of SEQ ID NOS:1-1565, the clones were retrieved from a library using a robotic retrieval system, and the inserts of the retrieved clones re-sequenced. These "validation" sequences are provided as SEQ ID NOS:1566-2610 in the Sequence Listing, and a summary of the "validation" sequences provided in Table 1B (inserted prior to claims). Table 1B provides: 1) the SEQ ID NO assigned to each sequence for use in the present specification; 2) the sequence name assigned to the "validation" sequence obtained; 3) whether the "validation" sequence contains sequence that overlaps with an original sequence of SEQ ID NOS:1-1565 (Validation Overlap (VO)), or whether the "validation" sequence does not substantially overlap with an original sequence of SEQ ID NOS:1-1565 (indicated by Validation Non-Overlap (VNO)); and 4) where the sequence is indicated as VO, the name of the clone that contains the indicated "validation" sequence. "Validation" sequences are indicated as "VO" where the "validation" sequence overlaps with an original sequence (*e.g.*, one of SEQ ID NOS:1-1565), and/or the "validation" sequence belongs to the same cluster as the original sequence using the clustering technique described above. Because the inserts of the clones are generally longer than the original

sequence and the validation sequence. it is possible that a "validation" sequence can be obtained from the same clone as an original sequence but yet not share any of the sequence of the original. Such validation sequences will. however. belong to the same cluster as the original sequence using the clustering technique described above. VO "validation" sequences are contained within the same clone as the original sequence (one of SEQ ID NOS:1-1565). "Validation" sequences that provided overlapping sequence are indicating by "VO" can be correlated with the original sequences they validate by referring to Table 1A. Sequences indicated as VNO are treated as newly isolated sequences and may or may not be related to the sequences of SEQ ID NOS:1-1565. Because the "validation" sequences are often longer than the original polynucleotide sequences and thus provide additional sequence information. All validation sequences can be obtained either from an indicated clone (*e.g.*, for VO sequences) or from a cDNA library described herein (*e.g.*, using primers designed from the sequence provided in the sequence listing).

Example 2: Results of Public Database Search to Identify Function of Gene Products

SEQ ID NOS:1566-2610 were translated in all three reading frames. and the nucleotide sequences and translated amino acid sequences used as query sequences to search for homologous sequences in either the GenBank (nucleotide sequences) or Non-Redundant Protein (amino acid sequences) databases. Query and individual sequences were aligned using the BLAST 2.0 programs. available over the world wide web at http://www.ncbi.nlm.nih.gov/BLAST/. (see also Altschul. et al. *Nucleic Acids Res.* (1997) *25*:3389-3402). The sequences were masked to various extents to prevent searching of repetitive sequences or poly-A sequences. using the XBLAST program for masking low complexity as described above in Example 1.

Tables 2A and 2B (inserted before the claims) provide the alignment summaries having a p value of 1×10^{-2} or less indicating substantial homology between the sequences of the present invention and those of the indicated public databases. Table 2A provides the SEQ ID NO of the query sequence. the accession number of the GenBank database entry of the homologous sequence, and the p value of the alignment. Table 2A provides the SEQ ID NO of the query sequence. the accession number of the Non-Redundant Protein database entry of the homologous sequence. and the p value of the alignment. The alignments provided in Tables 2A and 2B are the best available alignment to a DNA or amino acid sequence at a time just prior to filing of the present specification. The activity of the polypeptide encoded by the SEQ ID NOS listed in Tables 2A and 2B can be extrapolated to be substantially the same or substantially similar to the activity of the reported nearest neighbor or closely related sequence. The accession number of the nearest neighbor is reported, providing a publicly available reference to the activities and functions exhibited by the

nearest neighbor. The public information regarding the activities and functions of each of the nearest neighbor sequences is incorporated by reference in this application. Also incorporated by reference is all publicly available information regarding the sequence. as well as the putative and actual activities and functions of the nearest neighbor sequences listed in Table 2 and their related sequences. The search program and database used for the alignment. as well as the calculation of the p value are also indicated.

Full length sequences or fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full length sequence of the corresponding polynucleotide. The nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences of the corresponding polynucleotides.

Example 3: Members of Protein Families

SEQ ID NOS:1566-2601 were used to conduct a profile search as described in the specification above. Several of the polynucleotides of the invention were found to encode polypeptides having characteristics of a polypeptide belonging to a known protein family (and thus represent new members of these protein families) and/or comprising a known functional domain (Table 3A. inserted prior to claims). Table 3A provides the SEQ ID NO: of the query sequence, a brief description of the profile hit. the position of the query sequence within the individual sequence (indicated as "start" and "stop"). and the orientation (Direction) of the query sequence with respect to the individual sequence. where forward (for) indicates that the alignment is in the same direction (left to right) as the sequence provided in the Sequence Listing and reverse (rev) indicates that the alignment is with a sequence complementary to the sequence provided in the Sequence Listing.

Some polynucleotides exhibited multiple profile hits where the query sequence contains overlapping profile regions. and/or where the sequence contains two different functional domains. Each of the profile hits of Table 3A are described in more detail below. The acronyms for the profiles (provided in parentheses) are those used to identify the profile in the Pfam and Prosite databases. The Pfam database can be accessed through any of the following URLS: http://pfam.wustl.edu/index.html; http://www.sanger.ac.uk/ Software/Pfam/; and http://www.cgr.ki.se/Pfam/. The Prosite database can be accessed at http://www.expasy.ch/prosite/. The public information available on the Pfam and Prosite databases regarding the various profiles. including but not limited to the activities. function. and consensus sequences of various proteins families and protein domains. is incorporated herein by reference.

14-3-3 Family (14_3_3). SEQ ID NO:1967 corresponds to a sequence encoding a 14-3-3 protein family member. The 14-3-3 protein family includes a group of closely related acidic homodimeric proteins of about 30 kD first identified as very abundant in mammalian brain tissues

and located preferentially in neurons (Aitken et al. *Trends Biochem. Sci.* (1995) *20*:95-97; Morrison *Science* (1994) *266*:56-57; and Xiao et al. *Nature* (1995) *376*:188-191). The 14-3-3 proteins have multiple biological activities, including a key role in signal transduction pathways and the cell cycle. 14-3-3 proteins interact with kinases (*e.g.*, PKC or Raf-1), and can also function as protein-kinase dependent activators of tyrosine and tryptophan hydroxylases. The 14-3-3 protein sequences are extremely well conserved, and include two highly conserved regions: the first is a peptide of 11 residues located in the N-terminal section; the second, a 20 amino acid region located in the C-terminal section. The consensus patterns are as follows: 1) R-N-L-[LIV]-S-[VG]-[GA]-Y-[KN]-N-[IVA]; 2) Y-K-[DE]-S-T-L-I-[IM]-Q-L-[LF]-[RHC]-D-N-[LF]-T-[LS]-W-[TAN]-[SAD].

3'5'-Cyclin Nucleotide Phosphodiesterases (PDEase). SEQ ID NO: 2366 represents a polynucleotide encoding a novel 3'5'-cyclic nucleotide phosphodiesterase. PDEases catalyze the hydrolysis of cAMP or cGMP to the corresponding nucleoside 5' monophosphates (Charbonneau et al. *Proc. Natl. Acad. Sci. U.S.A.* (1986) *83*:9308). There are at least seven different subfamilies of PDEases (Beavo et al., *Trends Pharmacol. Sci.* (1990) *11*:150; http://weber.u.washington.edu/~pde/: 1) Type 1, calmodulin/calcium-dependent PDEases; 2) Type 2, cGMP-stimulated PDEases; 3) Type 3, cGMP-inhibited PDEases; 4) Type 4, cAMP-specific PDEases.; 5) Type 5, cGMP-specific PDEases; 6) Type 6, rhodopsin-sensitive cGMP-specific PDEases; and 7) Type 7, High affinity cAMP-specific PDEases. All PDEase forms share a conserved domain of about 270 residues. The signature pattern is determined from a stretch of 12 residues that contains two conserved histidines: H-D-[LIVMFY]-x-H-x-[AG]-x(2)-[NQ]-x-[LIVMFY].

Four Transmembrane Integral Membrane Proteins (transmembrane4). SEQ ID NOS:1579 and 1978 sequences correspond to a sequence encoding a member of the four transmembrane segments integral membrane protein family (tm4 family). The tm4 family of proteins includes a number of evolutionarily-related eukaryotic cell surface antigens (Levy *et al.*, *J. Biol. Chem.*, (1991) *266*:14597; Tomlinson *et al.*, *Eur. J. Immunol.* (1993) *23*:136; Barclay *et al.* The leucocyte antigen factbooks. (1993) Academic Press, London/San Diego). The tm4 family members are type III membrane proteins, which are integral membrane proteins containing an N-terminal membrane-anchoring domain that functions both as a translocation signal and as a membrane anchor. The family members also contain three additional transmembrane regions, at least seven conserved cysteines residues, and are of approximately the same size (218 to 284 residues). The consensus pattern spans a conserved region including two cysteines located in a short cytoplasmic loop between two transmembrane domains: Consensus pattern: G-x(3)-[LIVMF]-x(2)-[GSA]-[LIVMF](2)-G-C-x-[GA]-[STA]- x(2)-[EG]-x(2)-[CWN]-[LIVM](2).

Seven Transmembrane Integral Membrane Proteins -- Rhodopsin Family (7tm_1). SEQ ID NOS:1652, 1927, and 2068 correspond to a sequence encoding a member of the seven

transmembrane (7tm) receptor rhodopsin family. G-protein coupled receptors of the (7tm) rhodopsin family include hormones, neurotransmitters, and light receptors that transduce extracellular signals by interaction with guanine nucleotide-binding (G) proteins (Strosberg *Eur. J. Biochem.* (1991) *196*:1, Kerlavage *Curr. Opin. Struct. Biol.* (1991) *1*:394. Probst, et al., *DNA Cell Biol.* (1992) *11*:1, Savarese, et al., Biochem. J. (1992) *283*:1. http://www.gcrdb.uthscsa.edu/, http://swift.embl-heidelberg.de/7tm/) The consensus pattern that contains the conserved triplet and that also spans the major part of the third transmembrane helix is used to detect this widespread family of proteins: [GSTALIVMFYWC]-[GSTANCPDE]-{EDPKRH}-x(2)-[LIVMNQGA]-x(2)-[LIVMFT]-[GSTANC]-[LIVMFYWSTAC]-[DENH]-R-[FYWCSH]-x(2)-[LIVM].

<u>Seven Transmembrane Integral Membrane Proteins -- Secretin Family (7tm_2).</u> SEQ ID NOS:1598, 1719, 1911, 1927, 2068, and 2341 correspond to a sequence encoding a member of the seven transmembrane receptor (7tm) secretin family (Jueppner et al. *Science* (1991) *254*:1024; Hamann et al. *Genomics* (1996) *32*:144). The N-terminal extracellular domain of these receptors contains five conserved cysteines residues involved in disulfide bonds, with a consensus pattern in the region that spans the first three cysteines. One of the most highly conserved regions spans the C-terminal part of the last transmembrane region and the beginning of the adjacent intracellular region and is used as a second signature pattern. The two consensus patterns are: 1) C-x(3)-[FYWLIV]-D-x(3,4)-C-[FW]-x(2)-[STAGV]-x(8,9)-C-[PF]; and 2) Q-G-[LMFCA]-[LIVMFT]-[LIV]-x-[LIVFST]-[LIF]-[VFYH]-C- [LFY]-x-N-x(2)-V

<u>ATPases Associated with Various Cellular Activities (ATPases).</u> Several of the polynucleotides of the invention correspond to a sequence that encodes a member of a family of ATPases Associated with diverse cellular Activities (AAA). The AAA protein family is composed of a large number of ATPases that share a conserved region of about 220 amino acids containing an ATP-binding site (Froehlich *et al., J. Cell Biol.* (1991) *114*:443; Erdmann *et al. Cell* (1991) *64*:499; Peters *et al., EMBO J.* (1990) *9*:1757; Kunau *et al., Biochimie* (1993) *75*:209-224; Confalonieri *et al., BioEssays* (1995) *17*:639; http://yeamob.pci. chemie.uni-tuebingen.de/AAA/Description.html). The AAA domain, which can be present in one or two copies, acts as an ATP-dependent protein clamp (Confalonieri *et al.* (1995) *BioEssays* *17*:639) and contains a highly conserved region located in the central part of the domain. The consensus pattern is: [LIVMT]-x-[LIVMT]-[LIVMF]-x-[GATMC]-[ST]-[NS]-x(4)-[LIVM]- D-x-A-[LIFA]-x-R.

<u>Basic Region Plus Leucine Zipper Transcription Factors (BZIP).</u> SEQ ID NO:1623 represents a polynucleotide encoding a novel member of the family of basic region plus leucine zipper transcription factors. The bZIP superfamily (Hurst, *Protein Prof.* (1995) *2*:105; and Ellenberger, *Curr. Opin. Struct. Biol.* (1994) *4*:12) of eukaryotic DNA-binding transcription factors encompasses proteins that contain a basic region mediating sequence-specific DNA-binding

followed by a leucine zipper required for dimerization. The consensus pattern for this protein family is: [KR]-x(1,3)-[RKSAQ]-N-x(2)-[SAQ](2)-x-[RKTAENQ]-x-R-x-[RK].

C2 domain (C2). SEQ ID NOS: 1715 and 2426 correspond to a sequence encoding a C2 domain, which is involved in calcium-dependent phospholipid binding (Davletov *J. Biol. Chem.* (1993) *268*:26386-26390) or, in proteins that do not bind calcium, the domain may facilitate binding to inositol-1,3,4,5-tetraphosphate (Fukuda et al. *J. Biol. Chem.* (1994) *269*:29206-29211; Sutton et al. *Cell* (1995) *80*:929-938). The consensus sequence is: [ACG]-x(2)-L-x(2,3)-D-x(1,2)-[NGSTLIF]-[GTMR]-x-[STAP]-D- [PA]-[FY].

Cysteine proteases (Cys-protease). SEQ ID NO:2238 represents a polynucleotide encoding a protein having a eukaryotic thiol (cysteine) protease active site. Cysteine proteases (Dufour *Biochimie* (1988) *70*:1335) are a family of proteolytic enzymes that contain an active site cysteine. Catalysis proceeds through a thioester intermediate and is facilitated by a nearby histidine side chain; an asparagine completes the essential catalytic triad. The sequences around the three active site residues are well conserved and can be used as signature patterns: Q-x(3)-[GE]-x-C-[YW]-x(2)-[STAGC]-[STAGCV] (where C is the active site residue); 2) [LIVMGSTAN]-x-H-[GSACE]-[LIVM]-x-[LIVMAT](2)-G-x-[GSADNH] (where H is the active site residue); and 3) [FYCH]-[WI]-[LIVT]-x-[KRQAG]-N-[ST]-W-x(3)-[FYW]-G-x(2)-G- [LFYW]-[LIVMFYG]-x-[LIVMF] (where N is the active site residue).

DEAD and DEAH box families ATP-dependent helicases (Dead_box_helic). SEQ ID NOS:1630, 1865, and 2517 represent polynucleotides encoding a novel member of the DEAD and DEAH box families (Schmid et al., *Mol. Microbiol.* (1992) *6*:283; Linder et al., *Nature* (1989) *337*:121; Wassarman, et al., *Nature* (1991) *349*:463). All members of these families are involved in ATP-dependent, nucleic-acid unwinding. All DEAD box family members share a number of conserved sequence motifs, some of which are specific to the DEAD family, with others shared by other ATP-binding proteins or by proteins belonging to the helicases 'superfamily' (Hodgman *Nature* (1988) *333*:22 and *Nature* (1988) *333*:578 (Errata); http://www.expasy.ch/ www/ linder/ HELICASES_ TEXT.html). One of these motifs, called the 'D-E-A-D-box', represents a special version of the B motif of ATP-binding proteins. Proteins that have His instead of the second Asp and are 'D-E-A-H-box' proteins (Wassarman et al., *Nature* (1991) *349*:463; Harosh, et al., *Nucleic Acids Res.* (1991) *19*:6331; Koonin , et al., *J. Gen. Virol.* (1992) *73*:989; http://www.expasy.ch/ www/linder/HELICASES_TEXT.html). The following signature patterns are used to identify member for both subfamilies: 1) [LIVMF](2)-D-E-A-D-[RKEN]-x-[LIVMFYGSTN]; and 2) [GSAH]-x-[LIVMF](3)-D-E-[ALIV]-H-[NECR].

Dual specificity phosphatase (DSPc). Dual specificity phosphatases (DSPs) are Ser/Thr and Tyr protein phosphatases that comprise a tertiary fold highly similar to that of tyrosine-specific

phosphatases, except for a "recognition" region connecting helix alpha1 to strand beta1. This tertiary fold may determine differences in substrate specific between VH-1 related dual specificity phosphatase (VHR), the protein tyrosine phosphatases (PTPs), and other DSPs. Phosphatases are important in the control of cell growth, proliferation, differentiation and transformation.

<u>EF Hand (EFhand).</u> SEQ ID NO:1595 corresponds to a polynucleotide encoding a member of the EF-hand protein family, a calcium binding domain shared by many calcium-binding proteins belonging to the same evolutionary family (Kawasaki *et al., Protein. Prof.* (1995) *2*:305-490). The domain is a twelve residue loop flanked on both sides by a twelve residue alpha-helical domain, with a calcium ion coordinated in a pentagonal bipyramidal configuration. The six residues involved in the binding are in positions 1, 3, 5, 7, 9 and 12; these residues are denoted by X, Y, Z, -Y, -X and -Z. The invariant Glu or Asp at position 12 provides two oxygens for liganding Ca (bidentate ligand). The consensus pattern includes the complete EF-hand loop as well as the first residue which follows the loop and which seem to always be hydrophobic: D-x-[DNS]-{ILVFYW}-[DENSTG]-[DNQGHRK]-{GP}-[LIVMC]-[DENQSTAGC]-x(2)-[DE]-[LIVMFYW].

<u>Eukaryotic Aspartyl Proteases (asp).</u> Several of the polynucleotides of the invention correspond to a sequence encoding a novel eukaryotic aspartyl protease. Aspartyl proteases, known as acid proteases, (EC 3.4.23.-) are a widely distributed family of proteolytic enzymes (Foltmann., *Essays Biochem.* (1981) *17*:52; Davies, *Annu. Rev. Biophys. Chem.* (1990) *19*:189; Rao, *et al.*, *Biochemistry* (1991) *30*:4663) known to exist in vertebrates, fungi, plants, retroviruses and some plant viruses. Aspartate proteases of eukaryotes are monomeric enzymes which consist of two domains. Each domain contains an active site centered on a catalytic aspartyl residue. The consensus pattern to identify eukaryotic aspartyl protease is: [LIVMFGAC]-[LIVMTADN]-[LIVFSA]-D-[ST]-G-[STAV]-[STAPDENQ]- x-[LIVMFSTNC]-x-[LIVMFGTA], where D is the active site residue.

<u>Fibronectin Type II collagen-binding domain (Fntype11).</u> SEQ ID NO: 1968 corresponds to a polynucleotide encoding a polypeptide having a type II fibronectin collagen binding domain. Fibronectin is a plasma protein that binds cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin. The major part of the sequence of fibronectin consists of the repetition of three types of domains, called type I, II, and III (Skorstengaardet al., *Eur. J. Biochem.* (1986) *161*:441). The type II domain, which is duplicated in fibronectin, is approximately forty residues long, contains four conserved cysteines involved in disulfide bonds and is part of the collagen-binding region of fibronectin. The consensus pattern for identifying members of this family, which pattern spans this entire domain, is: C-x(2)-P-F-x-[FYWI]-x(7)-C-x(8,10)-W-C-x(4)-[DNSR]-[FYW]- x(3,5)-[FYW]-x-[FYWI]-C (where the four C's are involved in disulfide bonds).

<u>G-Protein Alpha Subunit (G-alpha).</u> SEQ ID NO: 1779 corresponds to a gene encoding a

member of the G-protein alpha subunit family. G-proteins are a family of membrane-associated proteins that couple extracellularly-activated integral-membrane receptors to intracellular effectors. such as ion channels and enzymes that vary the concentration of second messenger molecules. G-proteins are composed of 3 subunits (alpha, beta and gamma) which. in the resting state. associate as a trimer at the inner face of the plasma membrane. The alpha subunit. which binds GTP and exhibits GTPase activity, is about 350-400 amino acids in length with a molecular weight in the range of 40-45 kDa. Seventeen distinct types of alpha subunit have been identified in mammals. and fall into 4 main groups on the basis of both sequence similarity and function: alpha-s. alpha-q. alpha-i and alpha-12 (Simon *et al.*. *Science* (1993) *252*:802). They are often N-terminally acylated. usually with myristate and/or palmitoylate. and these fatty acid modifications can be important for membrane association and high- affinity interactions with other proteins.

Helicases conserved C-terminal domain (helicase_C). SEQ ID NOS: 1621 and 1652 represent polynucleotides encoding novel members of the DEAD/H helicase family. The DEAD and DEAH families are described above.

Helix-Loop-Helix (HLH) DNA Binding Domain (HLH). SEQ ID NO:2192 corresponds to a sequence encoding an HLH domain. The HLH domain. which normally spans about 40 to 50 amino acids. is present in a number of eukaryotic transcription factors. The HLH domain is formed of two amphipathic helices joined by a variable length linker region that forms a loop that mediates protein dimerization (Murre et al. *Cell* (1989) *56*:777-783). Basic HLH proteins (bHLH), which have an extra basic region of about 15 amino acid residues adjacent the HLH domain and specifically bind to DNA. include two groups: class A (ubiquitous) and class B (tissue-specific). bHLH family members bind variations of the E-box motif (CANNTG). The homo- or heterodimerization mediated by the HLH domain is independent of. but necessary for DNA binding, as two basic regions are required for DNA binding activity. The HLH proteins lacking the basic domain function as negative regulators since they form heterodimers. but fail to bind DNA. Consensus pattern: [DENSTAP]-[KTR]-[LIVMAGSNT]-{FYWCPHKR}-[LIVMT]-[LIVM]- x(2)-[STAV]-[LIVMSTACKR]-x-[VMFYH]-[LIVMTA]-{P}-{P}-[LIVMRKHQ].

Kinase Domain of Tors. The TOR profile is directed towards a lipid kinase protein family. This family is composed of large proteins with a lipid and protein kinase domain and characterized through their sensitivity to rapamycin (an antifungal compound). TOR proteins are involved in signal transduction downstream of PI3 kinase and many other signals. TOR (also called FRAP, RAFT) plays a role in regulating protein synthesis and cell growth., and in yeast controls translation initiation and early G1 progression. See, *e.g.*, Barbet *et al. Mol Biol Cell.* (1996) *7*(1):25-42: Helliwell *et al. Genetics* (1998) *148*:99-112.

MAP kinase kinase (mkk). SEQ ID NOS: 1825.1876. 2039. and 2526 represent members of

the MAP kinase kinase (mkk) family. MAP kinases (MAPK) are involved in signal transduction. and are important in cell cycle and cell growth controls. The MAP kinase kinases (MAPKK) are dual-specificity protein kinases which phosphorylate and activate MAP kinases. MAPKK homologues have been found in yeast. invertebrates. amphibians. and mammals. Moreover. the MAPKK/MAPK phosphorylation switch constitutes a basic module activated in distinct pathways in yeast and in vertebrates. MAPKKs are essential transducers through which signals must pass before reaching the nucleus. For review. see. *e.g.*, Biologique *Biol Cell* (1993) *79*:193-207: Nishida *et al.*. *Trends Biochem Sci* (1993) *18*:128-31: Ruderman *Curr Opin Cell Biol* (1993) *5*:207-13: Dhanasekaran *et al.*. *Oncogene* (1998) *17*:1447-55: Kiefer *et al.*, *Biochem Soc Trans* (1997) *25*:491-8: and Hill. *Cell Signal* (1996) *8*:533-44.

Neurotransmitter-Gated Ion-Channel (neur_chan). Several of the sequences correspond to a sequence encoding a neurotransmitter-gated ion channel. Neurotransmitter-gated ion-channels. which provide the molecular basis for rapid signal transmission at chemical synapses. are post-synaptic oligomeric transmembrane complexes that transiently form a ionic channel upon the binding of a specific neurotransmitter. Five types of neurotransmitter-gated receptors are known: 1) nicotinic acetylcholine receptor (AchR): 2) glycine receptor: 3) gamma-aminobutyric-acid (GABA) receptor: 4) serotonin 5HT3 receptor: and 5) glutamate receptor. All known sequences of subunits from neurotransmitter-gated ion-channels are structurally related. and are composed of a large extracellular glycosylated N-terminal ligand-binding domain. followed by three hydrophobic transmembrane regions that form the ionic channel. followed by an intracellular region of variable length. A fourth hydrophobic region is found at the C-terminal of the sequence. The consensus pattern is: C-x-[LIVMFQ]-x-[LIVMF]-x(2)-[FY]-P-x-D-x(3)-C. where the two C's are linked by a disulfide bond.

<u>Protein Kinase (protkinase)</u>. Several sequences represent polynucleotides encoding protein kinases. which catalyze phosphorylation of proteins in a variety of pathways, and are implicated in cancer. Eukaryotic protein kinases (Hanks, *et al.*. *FASEB J.* (1995) 9:576; Hunter. *Meth. Enzymol.* (1991) *200*:3; Hanks, *et al.*. *Meth. Enzymol.* (1991) *200*:38; Hanks. *Curr. Opin. Struct. Biol.* (1991) *1*:369; Hanks *et al.*, *Science* (1988) *241*:42) belong to a very extensive family of proteins that share a conserved catalytic core common to both serine/threonine and tyrosine protein kinases. There are a number of conserved regions in the catalytic domain of protein kinases. The first region, located in the N-terminal extremity of the catalytic domain. is a glycine-rich stretch of residues in the vicinity of a lysine residue. which has been shown to be involved in ATP binding. The second region. located in the central part of the catalytic domain, contains a conserved an aspartic acid residue that is important for the catalytic activity of the enzyme (Knighton. *et al.*, *Science* (1991) *253*:407).

The protein kinase profile includes two signature patterns for this second region: one

specific for serine/threonine kinases and the other for tyrosine kinases. A third profile is based on the alignment in (Hanks, *et al.*, *FASEB J.* (1995) *9*:576) and covers the entire catalytic domain. The consensus patterns are as follows: 1) [LIV]-G-{P}-G-{P}-[FYWMGSTNH]-[SGA]-{PW}-[LIVCAT]-{PD}-x-[GSTACLIVMFY]-x(5,18)-[LIVMFYWCSTAR]-[AIVP]-[LIVMFAGCKR]-K, where K binds ATP; 2) [LIVMFYC]-x-[HY]-x-D-[LIVMFY]-K-x(2)-N-[LIVMFYCT](3), where D is an active site residue; and 3) [LIVMFYC]-x-[HY]-x-D-[LIVMFY]-[RSTAC]-x(2)-N-[LIVMFYC], where D is an active site residue.

<u>Protein Tyrosine Phosphatase (Y_phosphatase) (PTPase)</u>. SEQ ID NOS:1719, 1769, 2062, 2197, and 2275 represent polynucleotides encoding a tyrosine-specific protein phosphatase, a kinase that catalyzes the removal of a phosphate groups attached to a tyrosine residue (EC 3.1.3.48) (PTPase) (Fischer *et al.*, *Science* (1991) *253*:401; Charbonneau *et al.*, *Annu. Rev. Cell Biol.* (1992) *8*:463; Trowbridge *Biol. Chem.* (1991) *266*:23517; Tonks *et al.*, *Trends Biochem. Sci.* (1989) *14*:497; and Hunter, *Cell* (1989) *58*:1013). PTPases are important in the control of cell growth, proliferation, differentiation and transformation. Multiple forms of PTPase have been characterized and can be classified into two categories: soluble PTPases and transmembrane receptor proteins that contain PTPase domain(s). Structurally, all known receptor PTPases are made up of a variable length extracellular domain, followed by a transmembrane region and a C-terminal catalytic cytoplasmic domain. PTPase domains consist of about 300 amino acids. Two conserved cysteines are absolutely required for activity, with a number of other conserved residues in the immediate vicinity also important for activity. The consensus pattern for PTPases is: [LIVMF]-H-C-x(2)-G-x(3)-[STC]-[STAGP]-x-[LIVMFY]; C is the active site residue.

<u>RNA Recognition Motif (rrm)</u>. SEQ ID NOS: 1850 and 2194 correspond to sequence encoding an RNA recognition motif, also known as an RRM, RBD, or RNP domain. This domain, which is about 90 amino acids long, is contained in eukaryotic proteins that bind single-stranded RNA (Bandziulis et al. *Genes Dev.* (1989) *3*:431-437; Dreyfuss et al. *Trends Biochem. Sci.* (1988) *13*:86-91). Two regions within the RNA-binding domain are highly conserved: the first is a hydrophobic segment of six residues (which is called the RNP-2 motif), the second is an octapeptide motif (which is called RNP-1 or RNP-CS). The consensus pattern is: [RK]-G-{EDRKHPCG}-[AGSCI]-[FY]-[LIVA]-x-[FYLM].

<u>SH2 Domain (SH2)</u>. SEQ ID NO: 2441 corresponds to a sequence encoding an SH2 domain. The Src homology 2 (SH2) domain includes an approximately 100 amino acid residue domain, which is conserved in the oncoproteins Src and Fps, as well as in many other intracellular signal-transducing proteins (Sadowski et al. *Mol. Cell. Biol.* (1986) *6*:4396-4408; Russel et al. *FEBS Lett.* (1992) *304*:15-20). SH2 domains function as regulatory modules of intracellular signaling cascades by interacting with high affinity to phosphotyrosine-containing target peptides in

a sequence-specific and strictly phosphorylation-dependent manner. The SH2 domain has a conserved 3D structure consisting of two alpha helices and six to seven beta-strands. The core of the domain is formed by a continuous beta-meander composed of two connected beta-sheets (Kuriyan et al. *Curr. Opin. Struct. Biol.* (1993) *3*:828-837).

Thioredoxin family active site (Thioredox). SEQ ID NO: 1618 represents a polynucleotide encoding a protein of the thioredoxin family. Thioredoxins are small proteins of approximately one hundred amino acid residues that participate in various redox reactions via the reversible oxidation of an active center disulfide bond (Holmgren. *Annu. Rev. Biochem.* (1985) *54*:237; Gleason. et al.. *FEMS Microbiol. Rev.* (1988) *54*:271; Holmgren A. *J. Biol. Chem.* (1989) *264*:13963; Eklund. et al. *Proteins* (1991) *11*:13). Thioredoxins exist in either reduced or oxidized forms where the two cysteine residues are linked in an intramolecular disulfide bond. The sequence around the redox-active disulfide bond is well conserved. The consensus pattern is: [LIVMF]-[LIVMSTA]-x-[LIVMFYC]-[FYWSTHE]-x(2)-[FYWGTN]-C- [GATPLVE]-[PHYWSTA]-C-x(6)-[LIVMFYWT] (where the two C's form the redox-active bond).

Trypsin (trypsin). SEQ ID NOS: 1579, 2290, 2341, 2421, 2430, and 2438 correspond to novel serine proteases of the trypsin family. The catalytic activity of the serine proteases from the trypsin family is provided by a charge relay system involving an aspartic acid residue hydrogen-bonded to a histidine, which itself is hydrogen-bonded to a serine. The sequences in the vicinity of the active site serine and histidine residues are well conserved (Brenner *Nature* (1988) *334*:528). The consensus patterns for the trypsin protein family are: 1) [LIVM]-[ST]-A-[STAG]-H-C, where H is the active site residue; and 2) [DNSTAGC]-[GSTAPIMVQH]-x(2)-G-[DE]-S-G-[GS]-[SAPHV]-[LIVMFYWH]-[LIVMFYSTANQH], where S is the active site residue. All sequences known to belong to this family are detected by the above consensus sequences, except for 18 different proteases which have lost the first conserved glycine. If a protein includes both the serine and the histidine active site signatures, the probability of it being a trypsin family serine protease is 100%.

WD Domain, G-Beta Repeats (WD_domain). SEQ ID NO: 2281 represents a members of the WD domain/G-beta repeat family. Beta-transducin (G-beta) is one of the three subunits (alpha, beta, and gamma) of the guanine nucleotide-binding proteins (G proteins) which act as intermediaries in the transduction of signals generated by transmembrane receptors (Gilman, *Annu. Rev. Biochem.* (1987) *56*:615). The alpha subunit binds to and hydrolyzes GTP; the beta and gamma subunits are required for the replacement of GDP by GTP as well as for membrane anchoring and receptor recognition. In higher eukaryotes, G-beta exists as a small multigene family of highly conserved proteins of about 340 amino acid residues. Structurally, G-beta has eight tandem repeats of about 40 residues, each containing a central Trp-Asp motif (this type of repeat is sometimes called a WD-40 repeat). The consensus pattern for the WD domain/G-Beta repeat family is:

[LIVMSTAC]-[LIVMFYWSTAGC]-[LIMSTAG]-[LIVMSTAGC]-x(2)-[DN]-x(2)-[LIVMWSTAC]-x-[LIVMFSTAG]-W-[DEN]-[LIVMFSTAGCN].

wnt Family of Developmental Signaling Proteins (Wnt_dev_sign). Several of the sequences correspond to novel members of the wnt family of developmental signaling proteins. Wnt-1 (previously known as int-1), the seminal member of this family, (Nusse, *Trends Genet.* (1988) *4*:291) plays a role in intercellular communication and is important in central nervous system development. All wnt family proteins share the following features characteristic of secretory proteins: a signal peptide, several potential N-glycosylation sites and 22 conserved cysteines that may be involved in disulfide bonds. Wnt proteins generally adhere to the plasma membrane of secreting cells and are therefore likely to signal over only few cell diameters. The consensus pattern, which is based upon a highly conserved region including three cysteines, is as follows: C-K-C-H-G-[LIVMT]-S-G-x-C.

Zinc Finger, C2H2 Type (Zincfing_C2H2). SEQ ID NOS: 1735, 1942, 2018, 2254, and 2515 correspond to polynucleotides encoding members of the C2H2 type zinc finger protein family, which contain zinc finger domains that facilitate nucleic acid binding (Klug *et al.*, *Trends Biochem. Sci.* (1987) *12*:464; Evans *et al.*, *Cell* (1988) *52*:1; Payre *et al.*, *FEBS Lett.* (1988) *234*:245; Miller *et al.*, *EMBO J.* (1985) *4*:1609; and Berg, *Proc. Natl. Acad. Sci. USA* (1988) *85*:99). In addition to the conserved zinc ligand residues, a number of other positions are also important for the structural integrity of the C2H2 zinc fingers. (Rosenfeld *et al.*, *J. Biomol. Struct. Dyn.* (1993) *11*:557) The best conserved position, which is generally an aromatic or aliphatic residue, is located four residues after the second cysteine. The consensus pattern for C2H2 zinc fingers is: C-x(2,4)-C-x(3)-[LIVMFYWC]-x(8)-H-x(3,5)-H. The two C's and two H's are zinc ligands.

Example 4: Differential Expression of Polynucleotides of the Invention: Description of Libraries and Detection of Differential Expression

The relative expression levels of the polynucleotides of the invention was assessed in several libraries prepared from various sources, including cell lines and patient tissue samples. Table 4 provides a summary of these libraries, including the shortened library name (used hereafter), the mRNA source used to prepared the cDNA library, the "nickname" of the library that is used in the tables below (in quotes), and the approximate number of clones in the library.

Table 4. Description of cDNA Libraries

Library (lib #)	Description	Number of Clones in Cluster
1	Km12 L4 Human Colon Cell Line, High Metastatic Potential (derived from Km12C): "High Met Colon"	307133

Library (lib #)	Description	Number of Clones in Cluster
2	Km12C Human Colon Cell Line. Low Metastatic Potential: "Low Met Colon"	284755
3	MDA-MB-231 Human Breast Cancer Cell Line. High Metastatic Potential: micro-metastases in lung: "High Met Breast"	326937
4	MCF7 Human Breast Cancer Cell. Non Metastatic: "Low Met Breast"	318979
8	MV-522 Human Lung Cancer Cell Line. High Metastatic Potential: "High Met Lung"	223620
9	UCP-3 Human Lung Cancer Cell Line. Low Metastatic Potential: "Low Met Lung"	312503
12	Human microvascular endothelial cells (HMEC) – Untreated PCR (OligodT) cDNA library: "HMEC"	41938
13	Human microvascular endothelial cells (HMEC) – Basic fibroblast growth factor (bFGF) treated PCR (OligodT) cDNA library: "HMEC-bFGF"	42100
14	Human microvascular endothelial cells (HMEC) – Vascular endothelial growth factor (VEGF) treated PCR (OligodT) cDNA library: "HMEC-VEGF"	42825
15	Normal Colon – UC#2 Patient PCR (OligodT) cDNA library; "Normal Colon Tissue"	282722
16	Colon Tumor – UC#2 Patient PCR (OligodT) cDNA library; "Normal Colon Tumor Tissue"	298831
17	Liver Metastasis from Colon Tumor of UC#2 Patient PCR (OligodT) cDNA library: "High Met Colon Tissue"	303467
18	Normal Colon – UC#3 Patient PCR (OligodT) cDNA library: "Normal Colon Tissue"	36216
19	Colon Tumor – UC#3 Patient PCR (OligodT) cDNA library: "Colon Tumor Tissue"	41388
20	Liver Metastasis from Colon Tumor of UC#3 Patient PCR (OligodT) cDNA library; "High Met Colon Tissue"	30956
21	GRRpz Human Prostate Cell Line: "Normal Prostate"	164801
22	Woca Human Prostate Cancer Cell Line: "Prostate Cancer"	162088

The KM12L4. KM12C. and MDA-MB-231 cell lines are described in Example 1 above. The MCF7 cell line was derived from a pleural effusion of a breast adenocarcinoma and is non-metastatic. The MV-522 cell line is derived from a human lung carcinoma and is of high metastatic potential. The UCP-3 cell line is a low metastatic human lung carcinoma cell line: the MV-522 is a high metastatic variant of UCP-3. These cell lines are well-recognized in the art as models for the study of human breast and lung cancer (see. *e.g.*. Chandrasekaran *et al.*. *Cancer Res.* (1979) *39*:870 (MDA-MB-231 and MCF-7): Gastpar *et al.*. *J Med Chem* (1998) *41*:4965 (MDA-MB-231 and

MCF-7); Ranson *et al.*, *Br J Cancer* (1998) *77*:1586 (MDA-MB-231 and MCF-7); Kuang *et al.*, *Nucleic Acids Res* (1998) *26*:1116 (MDA-MB-231 and MCF-7); Varki *et al.*, *Int J Cancer* (1987) *40*:46 (UCP-3); Varki *et al.*, *Tumour Biol.* (1990) *11*:327; (MV-522 and UCP-3); Varki *et al.*, *Anticancer Res.* (1990) *10*:637; (MV-522); Kelner *et al.*, *Anticancer Res* (1995) *15*:867 (MV-522); and Zhang *et al.*, *Anticancer Drugs* (1997) *8*:696 (MV522)). The samples of libraries 15-20 are derived from two different patients (UC#2, and UC#3). The bFGF-treated HMEC were prepared by incubation with bFGF at 10ng/ml for 2 hrs; the VEGF-treated HMEC were prepared by incubation with 20ng/ml VEGF for 2 hrs. Following incubation with the respective growth factor, the cells were washed and lysis buffer added for RNA preparation. The GRRpz and WOca cell lines were provided by Dr. Donna M. Peehl, Department of Medicine, Stanford University School of Medicine. GRRpz was derived from normal prostate epithelium. The WOca cell line is a Gleason Grade 4 cell line.

Each of the libraries is composed of a collection of cDNA clones that in turn are representative of the mRNAs expressed in the indicated mRNA source. In order to facilitate the analysis of the millions of sequences in each library, the sequences were assigned to clusters. The concept of "cluster of clones" is derived from a sorting/grouping of cDNA clones based on their hybridization pattern to a panel of roughly 300 7bp oligonucleotide probes (see Drmanac *et al.*, *Genomics* (1996) *37*(1):29). Random cDNA clones from a tissue library are hybridized at moderate stringency to 300 7bp oligonucleotides. Each oligonucleotide has some measure of specific hybridization to that specific clone. The combination of 300 of these measures of hybridization for 300 probes equals the "hybridization signature" for a specific clone. Clones with similar sequence will have similar hybridization signatures. By developing a sorting/grouping algorithm to analyze these signatures, groups of clones in a library can be identified and brought together computationally. These groups of clones are termed "clusters". Depending on the stringency of the selection in the algorithm (similar to the stringency of hybridization in a classic library cDNA screening protocol), the "purity" of each cluster can be controlled. For example, artifacts of clustering may occur in computational clustering just as artifacts can occur in "wet-lab" screening of a cDNA library with 400 bp cDNA fragments, at even the highest stringency. The stringency used in the implementation of cluster herein provides groups of clones that are in general from the same cDNA or closely related cDNAs. Closely related clones can be a result of different length clones of the same cDNA, closely related clones from highly related gene families, or splice variants of the same cDNA.

Differential expression for a selected cluster was assessed by first determining the number of cDNA clones corresponding to the selected cluster in the first library (Clones in 1st), and the determining the number of cDNA clones corresponding to the selected cluster in the second library

(Clones in 2^{nd}). Differential expression of the selected cluster in the first library relative to the second library is expressed as a "ratio" of percent expression between the two libraries. In general, the "ratio" is calculated by: 1) calculating the percent expression of the selected cluster in the first library by dividing the number of clones corresponding to a selected cluster in the first library by the total number of clones analyzed from the first library; 2) calculating the percent expression of the selected cluster in the second library by dividing the number of clones corresponding to a selected cluster in a second library by the total number of clones analyzed from the second library; 3) dividing the calculated percent expression from the first library by the calculated percent expression from the second library. If the "number of clones" corresponding to a selected cluster in a library is zero, the value is set at 1 to aid in calculation. The formula used in calculating the ratio takes into account the "depth" of each of the libraries being compared, *i.e.*, the total number of clones analyzed in each library.

In general, a polynucleotide is said to be significantly differentially expressed between two samples when the ratio value is greater than at least about 2, preferably greater than at least about 3, more preferably greater than at least about 5 , where the ratio value is calculated using the method described above. The significance of differential expression is determined using a z score test (Zar, Biostatistical Analysis, Prentice Hall, Inc., USA, "Differences between Proportions," pp 296-298 (1974).

Examples 5-12: Differential Expression of Polynucleotides of the Invention

A number of polynucleotide sequences have been identified that are differentially expressed between, for example, cells derived from high metastatic potential cancer tissue and low metastatic cancer cells, and between cells derived from high metastatic potential cancer tissue and normal tissue. Evaluation of the levels of expression of the genes corresponding to these sequences can be valuable in diagnosis, prognosis, and/or treatment (*e.g.*, to facilitate rationale design of therapy, monitoring during and after therapy, *etc.*). Moreover, the genes corresponding to differentially expressed sequences described herein can be therapeutic targets due to their involvement in regulation (*e.g.*, inhibition or promotion) of development of, for example, the metastatic phenotype. For example, sequences that correspond to genes that are increased in expression in high metastatic potential cells relative to normal or non-metastatic tumor cells may encode genes or regulatory sequences involved in processes such as angiogenesis, differentiation, cell replication, and metastasis.

Detection of the relative expression levels of differentially expressed polynucleotides described herein can provide valuable information to guide the clinician in the choice of therapy. For example, a patient sample exhibiting an expression level of one or more of these polynucleotides

that corresponds to a gene that is increased in expression in metastatic or high metastatic potential cells may warrant more aggressive treatment for the patient. In contrast, detection of expression levels of a polynucleotide sequence that corresponds to expression levels associated with that of low metastatic potential cells may warrant a more positive prognosis than the gross pathology would suggest.

A number of polynucleotide sequences of the present invention are differentially expressed between human microvascular endothelial cells (HMEC) that have been treated with growth factors relative to untreated HMEC. Sequences that are differentially expressed between growth factor-treated HMEC and untreated HMEC can represent sequences encoding gene products involved in angiogenesis, metastasis (cell migration), and other development and oncogenic processes. For example, sequences that are more highly expressed in HMEC treated with growth factors (such as bFGF or VEGF) relative to untreated HMEC can serve as markers of cancer cells of higher metastatic potential. Detection of expression of these sequences in colon cancer tissue can be valuable in determining diagnostic, prognostic and/or treatment information associated with the prevention of achieving the malignant state in these tissues, and can be important in risk assessment for a patient. A patient sample displaying an increased level of one or more of these polynucleotides may thus warrant closer attention or more frequent screening procedures to catch the malignant state as early as possible.

The differential expression of the polynucleotides described herein can thus be used as, for example, diagnostic markers, prognostic markers, for risk assessment, patient treatment and the like. These polynucleotide sequences can also be used in combination with other known molecular and/or biochemical markers. The following examples provide relative expression levels of polynucleotides from specified cell lines and patient tissue samples.

Example 5: High Metastatic Potential Breast Cancer Versus Low Metastatic Breast Cancer Cells

The following tables summarize polynucleotides that represent genes that are differentially expressed between high metastatic potential and low metastatic potential breast cancer cells.

Table 5. High metastatic potential breast (lib3) > low metastatic potential (lib4) breast cancer cells

SEQ ID NO:	Lib3 Clones	Lib4 Clones	Lib3/Lib4
1213	40	0	39
1538	60	3	20
1466	14	0	14
1356	10	0	10
1383	10	1	10
1158	10	1	10
441	10	1	10
1338	10	0	10
1426	19	2	9

SEQ ID NO:	Lib3 Clones	Lib4 Clones	Lib3/Lib4
1547	9	1	9
1313	8	1	8
841	8	1	8
1534	8	0	8
1503	8	0	8
829	8	1	8
1408	8	0	8
1447	7	0	7
1389	7	0	7
356	7	0	7
1492	7	0	7
1543	22	3	7
799	7	0	7
1437	6	0	6
1251	6	0	6
972	18	3	6
1482	6	0	6
1299	6	0	6
109	24	4	6
1558	6	0	6
1355	6	0	6
1548	11	2	5
250	10	2	5
919	26	6	4
358	36	12	3
1525	75	28	3
1157	49	17	3

Table 6. Low metastatic potential breast (lib4) > high metastatic potential breast cancer cells (lib3)

SEQ ID NO:	Lib3 Clones	Lib4 Clones	Lib4/Lib3
248	0	58	59
726	1	23	24
14	1	19	19
699	0	14	14
763	1	14	14
20	1	13	13
79	1	13	13
715	0	10	10
991	0	8	8
1199	0	8	8
707	0	7	7
1128	4	26	7
891	0	6	6
1146	2	11	6
731	7	44	6
1518	3	15	5
340	3	13	4
949	4	13	3

SEQ ID NO:	Lib3 Clones	Lib4 Clones	Lib4/Lib3
1247	7	18	3
1185	497	1216	3

Example 6: High Metastatic Potential Lung Cancer Versus Low Metastatic Lung Cancer Cells

The following summarizes polynucleotides that represent genes differentially expressed between high metastatic potential lung cancer cells and low metastatic potential lung cancer cells:

Table 7. High metastatic potential lung (lib8) > low metastatic potential lung (lib9) lung cancer cells

SEQ ID NO:	Lib8 Clones	Lib9 Clones	Lib8/Lib9
150	31	0	43
651	43	2	30
1298	14	1	20
57	11	0	15
625	7	0	10
1322	7	1	10
36	7	0	10
621	18	3	8
215	6	1	8
561	19	4	7
247	5	0	7
199	5	0	7
998	5	0	7
502	5	0	7
1382	8	2	6
1181	17	4	6
1309	8	2	6
1157	15	4	5
1260	14	5	4
1185	710	266	4
1525	21	10	3

Table 8. Low metastatic potential lung (lib9) > high metastatic potential lung (lib8) cancer cells

SEQ ID NO:	Lib8 Clones	Lib9 Clones	Lib9/Lib8
924	1	13	9
822	1	13	9
728	1	12	9
341	1	12	9
1527	3	31	7
698	4	26	5
949	2	15	5
744	3	23	5
973	8	27	2

Example 7: High Metastatic Potential Colon Cancer Versus Low Metastatic Colon Cancer Cells

Tables 9 and 10 summarize polynucleotides that represent genes differentially expressed between high metastatic potential and low metastatic potential colon cancer cells:

Table 9. High metastatic potential (lib1) > low metastatic potential (lib2) colon cancer cells

SEQ ID NO:	Lib1 Clones	Lib2 Clones	Lib1/Lib2
248	67	2	31
87	12	0	11
698	11	0	10
57	13	3	4
924	24	10	2
1249	24	9	2

Table 10. Low metastatic potential (lib2) > high metastatic potential colon cancer (lib1) cells

SEQ ID NO:	Lib1 Clones	Lib2 Clones	Lib2/Lib1
1268	1	17	18
1114	0	15	16
1032	1	14	15
109	5	60	13
973	1	11	12
91	1	11	12
982	0	9	10
1267	3	28	10
93	1	8	9
1556	1	8	9
1251	0	8	9
1206	2	17	9
812	0	8	9
1254	0	7	8
1220	0	7	8
766	0	7	8
1156	0	7	8
1007	0	7	8
981	0	7	8
762	0	7	8
876	0	6	6
1234	2	11	6
1183	0	6	6
1044	2	12	6
785	0	6	6
1069	3	17	6
770	0	6	6
778	0	6	6
792	0	6	6
822	2	10	5
1258	7	23	4
1224	7	17	3

SEQ ID NO:	Lib1 Clones	Lib2 Clones	Lib2/Lib1
984	8	19	3
841	10	28	3
339	14	34	3
1213	11	29	3
1201	5	14	3
1192	22	48	2

Example 8: High Metastatic Potential Colon Cancer Patient Tissue Vs. Normal Patient Tissue

Tables11 summarizes polynucleotides that represent genes differentially expressed between high metastatic potential colon cancer cells and normal colon cells of patient tissue. :

Table 11. High metastatic potential colon tissue (lib17) vs. normal colon tissue (lib15)

SEQ ID NO:	Lib15 Clones	Lib17 Clones	Lib17/Lib15
1422	1	13	12
1132	1	10	9
730	1	9	8
1311	0	7	7
78	9	48	5
822	5	20	4
SEQ ID NO:	**Lib15 Clones**	**Lib17 Clones**	**Lib15/Lib17**
463	8	1	9

Example 9: High Tumor Potential Colon Tissue Vs. Metastasized Colon Cancer Tissue

The following table summarizes polynucleotides that represent genes differentially expressed between high tumor potential colon cancer cels and cells derived from high metastatic potential colon cancer cells of a patient.

Table 12. High tumor potential colon tissue (lib16) vs. high metastatic colon tissue (lib17)

SEQ ID NO:	Lib16 Clones	Lib17 Clones	Lib16/Lib17
1185	14	4	4
SEQ ID NO:	**Lib16 Clones**	**Lib17 Clones**	**Lib17/Lib16**
822	2	20	10

Example 10: High Tumor Potential Colon Cancer Patient Tissue Versus Normal Patient Tissue

Tables 13 and 14 summarize polynucleotides that represent genes differentially expressed between high metastatic potential colon cancer cells and normal colon cells in patient tissue:

Table 13. Higher expression in tumor potential colon tissue (lib16) vs. normal colon tissue (lib15)

SEQ ID NO:	Lib15 Clones	Lib16 Clones	Lib16/Lib15
1311	0	8	8
78	9	28	3

Table 14. Higher expression in normal colon tissue (lib15) vs. tumor potential colon tissue (lib16)

SEQ ID NO:	Lib15 Clones	Lib16 Clones	Lib15/Lib16
463	8	0	8
1099	12	3	4

Example 11: Growth Factor-Stimulated Human Microvascular Endothelial Cells (HMEC) Relative to Untreated HMEC

The following tables summarize polynucleotides that represent genes differentially expressed between growth factor-treated and untreated HMEC.

Table 15. Higher expression in bFGF treated HMEC (lib13) vs. untreated HMEC (lib12)

SEQ ID NO:	Lib12 Clones	Lib13 Clones	Lib13/Lib12
1520	9	23	3
1538	17	35	2

Table 16. Higher expression in VEGF treated HMEC (lib14) vs. untreated HMEC (lib12)

SEQ ID NO:	Lib12 Clones	Lib14 Clones	Lib14/Lib12
1154	2	12	6
1226	2	10	5
1538	17	38	2

Example 12: Polynucleotides Differentially Expressed in Human Prostate Cancer Cells Relative to Normal Human Prostate Cells

The following tables summarize identified polynucleotides that represent genes differentially expressed between prostate cancer cells and normal prostate cells:

Table 17. Higher expression in normal prostate cells (lib21) relative to prostate cancer cells (lib22)

SEQ ID NO:	Lib21 Clones	Lib22 Clones	Lib21/Lib22
1525	6	0	6
248	116	51	2
1203	22	9	2

Table 18 Higher expression in prostate cancer cells (lib22) relative to normal prostate cells (lib21)

SEQ ID NO:	Lib21 Clones	Lib22 Clones	Lib22/Lib21
1213	0	34	35
340	1	12	12
699	0	11	11

Example 13: Differential Expression Across Multiple Libraries

A number of polynucleotide sequences have been identified that represent genes that are differentially expressed across multiple libraries. Expression of these sequences in a tissue or any

origin can be valuable in determining diagnostic, prognostic and/or treatment information associated with the prevention of achieving the malignant state in these tissues, and can be important in risk assessment for a patient. These polynucleotides can also serve as non-tissue specific markers of, for example, risk of metastasis of a tumor. Table 19 summarizes this data.

Table 19. Genes Differentially Expressed Across Multiple Library Comparisons

SEQ ID NO:	Cell or Tissue Sample and Cancer State Compared	Ratio
57	High Met Lung (lib8) > Low Met Lung (lib9)	15
57	High Met Colon (lib1) > Low Met Colon (lib2)	4
78	High Met Colon Tissue (lib17) > Normal Colon Tissue (lib15)	5
78	Normal Colon Tumor Tissue (lib16) > Normal Colon Tissue (lib15)	3
109	High Met Breast (lib3) > Low Met Breast (lib4)	6
109	Low Met Colon (lib2) > High Met Colon (lib1)	13
248	High Met Colon (lib1) > Low Met Colon (lib2)	31
248	Normal Prostate (lib21) > Prostate Cancer (lib22)	2
248	Low Met Breast (lib4) > High Met Breast (lib3)	59
340	Prostate Cancer (lib22) > Normal Prostate (lib21)	12
340	Low Met Breast (lib4) > High Met Breast (lib3)	4
463	Normal Colon Tissue (lib15) > High Met Colon Tissue (lib17)	9
463	Normal Colon Tissue (lib15) > Normal Colon Tumor Tissue (lib16)	8
698	High Met Colon (lib1) > Low Met Colon (lib2)	10
698	Low Met Lung (lib9) > High Met Lung (lib8)	5
699	Low Met Breast (lib4) > High Met Breast (lib3)	14
699	Prostate Cancer (lib22) > Normal Prostate (lib21)	11
822	High Met Colon Tissue (lib17) > Normal Colon Tumor Tissue (lib16)	10
822	Low Met Lung (lib9) > High Met Lung (lib8)	9
822	Low Met Colon (lib2) > High Met Colon (lib1)	5
822	High Met Colon Tissue (lib17) > Normal Colon Tissue (lib15)	4
841	High Met Breast (lib3) > Low Met Breast (lib4)	8
841	Low Met Colon (lib2) > High Met Colon (lib1)	3
924	High Met Colon (lib1) > Low Met Colon (lib2)	2
924	Low Met Lung (lib9) > High Met Lung (lib8)	9
949	Low Met Lung (lib9) > High Met Lung (lib8)	5
949	Low Met Breast (lib4) > High Met Breast (lib3)	3
973	Low Met Colon (lib2) > High Met Colon (lib1)	12
973	Low Met Lung (lib9) > High Met Lung (lib8)	2
1157	High Met Lung (lib8) > Low Met Lung (lib9)	5
1157	High Met Breast (lib3) > Low Met Breast (lib4)	3
1185	Normal Colon Tumor Tissue (lib16) > High Met Colon Tissue (lib17)	4
1185	High Met Lung (lib8) > Low Met Lung (lib9)	4
1185	Low Met Breast (lib4) > High Met Breast (lib3)	3
1213	High Met Breast (lib3) > Low Met Breast (lib4)	39
1213	Prostate Cancer (lib22) > Normal Prostate (lib21)	35
1213	Low Met Colon (lib2) > High Met Colon (lib1)	3
1251	High Met Breast (lib3) > Low Met Breast (lib4)	6
1251	Low Met Colon (lib2) > High Met Colon (lib1)	9
1311	Normal Colon Tumor Tissue (lib16) > Normal Colon Tissue (lib15)	8

SEQ ID NO:	Cell or Tissue Sample and Cancer State Compared	Ratio
1311	High Met Colon Tissue (lib17) > Normal Colon Tissue (lib15)	7
1525	Normal Prostate (lib21) > Prostate Cancer (lib22)	6
1525	High Met Lung (lib8) > Low Met Lung (lib9)	3
1525	High Met Breast (lib3) > Low Met Breast (lib4)	3
1538	High Met Breast (lib3) > Low Met Breast (lib4)	20
1538	HMEC-VEGF (lib14) > HMEC (lib12)	2
1538	HMEC-bFGF (lib13) > HMEC (lib12)	2

Key for Table 19: High Met = high metastatic potential; Low Met = low metastatic potential; met = metastasized; tumor = non-metastasized tumor; HMEC = human microvascular endothelial cell; bFGF = bFGF treated; VEGF = VEGF treated.

Example 14: Identification of Contiguous Sequences Having a Polynucleotide of the Invention

The novel polynucleotides were used to screen publicly available and proprietary databases to determine if any of the polynucleotides of SEQ ID NOS:2611-2707 would facilitate identification of a contiguous sequence, *e.g.*, the polynucleotides would provide sequence that would result in 5' extension of another DNA sequence, resulting in production of a longer contiguous sequence composed of the provided polynucleotide and the other DNA sequence(s). Contiging was performed using the Gelmerge application (default settings) of GCG from the Univ. of Wisconsin.

Using these parameters, 97 contiged sequences were generated. These contiged sequences are provided as SEQ ID NOS:2611-2707 (see Table 1C). Table 1C provides the SEQ ID NO of the contig sequence, the name of the sequence used to create the contig, and the accession number of the publicly available tentative human consensus (THC) sequence used with the sequence of the corresponding sequence name to provide the contig. The sequence name of Table 1C can be correlated with the SEQ ID NO: of the polynucleotide of the invention using Tables 1A and 1B.

The contiged sequences (SEQ ID NOS:2611-2707) thus represent longer sequences that encompass a polynucleotide sequence of the invention. The contiged sequences were then translated in all three reading frames to determine the best alignment with individual sequences using the BLAST programs as described above. The sequences were masked using the XBLAST program for masking low complexity as described above in Example 1. Several of the contiged sequences were found to encode polypeptides having characteristics of a polypeptide belonging to a known protein families (and thus represent new members of these protein families) and/or comprising a known functional domain (Table 3B, inserted prior to claims). Thus the invention encompasses fragments, fusions, and variants of such polynucleotides that retain biological activity associated with the protein family and/or functional domain identified herein.

Descriptions of the profiles for the indicated protein families and functional domains are provided in Example 3 above. A description of the profile for PR55 is provided below.

Protein Phosphatase 2A Regulatory Subunit PR55 (PR55). Several of the contigs correspond to a sequence encoding a protein comprising a protein phosphatase 2A (PP2A) regulatory subunit PR55. PP2A is a serine/threonine phosphatase involved in many aspects of cellular function including the regulation of metabolic enzymes and proteins involved in signal transduction. PP2A is a trimeric enzyme comprising a core composed of a catalytic subunit associated with a 65 Kd regulatory subunit (PR65, also called subunit A). This complex associates with a third variable subunit (subunit B), which confers distinct properties to the holoenzyme (Mayer-Jaekel et al. *Trends Cell Biol.* (1994) *4*:287-291). One of the forms of the variable subunit is a 55 Kd protein (PR55) which is highly conserved in mammals and may facilitate substrate recognition or targeting the enzyme complex to the appropriate subcellular compartment. The PR55 subunit comprises two conserved sequences of 15 residues: one located in the N-terminal region, the other in the center of the protein. The consensus patterns are: E-F-D-Y-L-K-S-L-E-I-E-E-K-I-N; and N-[AG]-H-[TA]-Y-H-I-N-S-I-S-[LIVM]-N-S-D.

Those skilled in the art will recognize, or be able to ascertain, using not more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such specific embodiments and equivalents are intended to be encompassed by the following claims.

All publications and patent applications cited in this specification are herein incorporated by reference as if each individual publication or patent application were specifically and individually indicated to be incorporated by reference. The citation of any publication is for its disclosure prior to the filing date and should not be construed as an admission that the present invention is not entitled to antedate such publication by virtue of prior invention.

Although the foregoing invention has been described in some detail by way of illustration and example for purposes of clarity of understanding, it is readily apparent to those of ordinary skill in the art in light of the teachings of this invention that certain changes and modifications may be made thereto without departing from the spirit or scope of the appended claims.

Deposit Information. The following materials were deposited with the American Type Culture Collection (CMCC = Chiron Master Culture Collection).

Table 20. Cell Lines Deposited with ATCC

Cell Line	Deposit Date	ATCC Accession No.	CMCC Accession No.
KM12L4-A	March 19, 1998	CRL-12496	11606
Km12C	May 15, 1998	CRL-12533	11611
MDA-MB-231	May 15, 1998	CRL-12532	10583
MCF-7	October 9, 1998	CRL-12584	10377

In addition, pools of selected clones, as well as libraries containing specific clones, were assigned an "ES" number (internal reference) and deposited with the ATCC. Table 21 below provides the ATCC Accession Nos. of the ES deposits, all of which were deposited on or before May 13, 1999. The names of the clones contained within each of these deposits are provided in the tables numbered 22 and greater (inserted before the claims).

Table 21: Pools of Clones and Libraries Deposited with ATCC on or before May 14, 1999

ES #	ATCC Accession #	ES #	ATCC Accession #	ES #	ATCC Accession #
34		41		48	
35		42		49	
36		43		50	
37		44		51	
38		45		52	
39		46		53	
40		47		54	

The deposits described herein are provided merely as convenience to those of skill in the art, and is not an admission that a deposit is required under 35 U.S.C. §112. The sequence of the polynucleotides contained within the deposited material, as well as the amino acid sequence of the polypeptides encoded thereby, are incorporated herein by reference and are controlling in the event of any conflict with the written description of sequences herein. A license may be required to make, use, or sell the deposited material, and no such license is granted hereby.

Retrieval of Individual Clones from Deposit of Pooled Clones. Where the ATCC deposit is composed of a pool of cDNA clones or a library of cDNA clones, the deposit was prepared by first transfecting each of the clones into separate bacterial cells. The clones in the pool or library were then deposited as a pool of equal mixtures in the composite deposit. Particular clones can be obtained from the composite deposit using methods well known in the art. For example, a bacterial cell containing a particular clone can be identified by isolating single colonies, and identifying colonies containing the specific clone through standard colony hybridization techniques, using an oligonucleotide probe or probes designed to specifically hybridize to a sequence of the clone insert (*e.g.*, a probe based upon unmasked sequence of the encoded polynucleotide having the indicated SEQ ID NO). The probe should be designed to have a T_m of approximately 80°C (assuming 2°C for each A or T and 4°C for each G or C). Positive colonies can then be picked, grown in culture, and the recombinant clone isolated. Alternatively, probes designed in this manner can be used to PCR to isolate a nucleic acid molecule from the pooled clones according to methods well known in the art, *e.g.*, by purifying the cDNA from the deposited culture pool, and using the probes in PCR reactions to produce an amplified product having the corresponding desired polynucleotide sequence.

Table 1A

SEQ ID NO:	Priority Appln Information Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1	5/14/98	1487	1	RTA00000608F.d.17.1	M00003981C:E04
2	5/14/98	1487	2	RTA00000589F.n.08.1	M00004182D:H03
3	5/14/98	1487	3	RTA00000589F.p.06.1	M00004223D:D07
4	5/14/98	1487	4	RTA00000597F.b.03.4	M00003770D:C07
5	5/14/98	1487	5	RTA00000608F.k.12.1	M00004029A:E01
6	5/14/98	1487	6	RTA00000585F.h.08.2	M00001432B:H08
7	5/14/98	1487	7	RTA00000585F.h.14.2	M00001433A:C07
8	5/14/98	1487	8	RTA00000609F.f.01.3	M00004060C:A02
9	5/14/98	1487	9	RTA00000588F.j.01.3	M00003835A:E03
10	5/14/98	1487	10	RTA00000596F.b.19.1	M00001663C:C03
11	5/14/98	1487	11	RTA00000585F.m.18.1	M00001444A:A09
12	5/14/98	1487	12	RTA00000596F.m.11.1	M00003753C:B01
13	5/14/98	1487	13	RTA00000589F.k.05.1	M00004133C:B02
14	5/14/98	1487	14	RTA00000589F.a.18.2	M00003984C:F04
15	5/14/98	1487	15	RTA00000585F.g.19.2	M00001431A:E05
16	5/14/98	1487	16	RTA00000595F.c.21.1	M00001598C:D10
17	5/14/98	1487	17	RTA00000584F.n.20.1	M00001406C:A11
18	5/14/98	1487	18	RTA00000611F.o.18.5	M00004204A:D04
19	5/14/98	1487	19	RTA00000597F.f.23.1	M00003787D:A06
20	5/14/98	1487	20	RTA00000585F.p.13.2	M00001452B:H06
21	5/14/98	1487	21	RTA00000583F.f.06.1	M00001348D:H08
22	5/14/98	1487	22	RTA00000585F.h.08.1	M00001432B:H08
23	5/14/98	1487	23	RTA00000589F.n.10.1	M00004184B:F11
24	5/14/98	1487	24	RTA00000614F.k.01.1	M00004465C:B12
25	5/14/98	1487	25	RTA00000587F.p.24.1	M00001584C:A03
26	5/14/98	1487	26	RTA00000587F.g.19.2	M00001548C:A09
27	5/14/98	1487	27	RTA00000612F.c.12.2	M00004222A:H10
28	5/14/98	1487	28	RTA00000589F.f.09.1	M00004064A:B12
29	5/14/98	1487	29	RTA00000586F.k.02.1	M00001490B:G04
30	5/14/98	1487	30	RTA00000609F.b.20.2	M00004050A:F02
31	5/14/98	1487	31	RTA00000584F.m.13.1	M00001402D:C07
32	5/14/98	1487	32	RTA00000614F.i.12.1	M00004447D:D10
33	5/14/98	1487	33	RTA00000608F.m.14.1	M00004035A:A10
34	5/14/98	1487	34	RTA00000608F.m.01.1	M00004033C:D10
35	5/14/98	1487	35	RTA00000597F.o.18.1	M00003819C:E04
36	5/14/98	1487	36	RTA00000584F.g.06.1	M00001390A:C06
37	5/14/98	1487	37	RTA00000609F.a.07.2	M00004046A:F04
38	5/14/98	1487	38	RTA00000607F.o.12.2	M00003961C:G02
39	5/14/98	1487	39	RTA00000597F.p.17.1	M00003821C:E04

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
40	5/14/98	1487	40	RTA00000609F.f.16.3	M00004063C:B11
41	5/14/98	1487	41	RTA00000584F.o.04.1	M00001407B:A08
42	5/14/98	1487	42	RTA00000608F.d.21.1	M00003982A:G03
43	5/14/98	1487	43	RTA00000614F.b.23.1	M00004389C:E01
44	5/14/98	1487	44	RTA00000612F.l.04.1	M00004268C:F08
45	5/14/98	1487	45	RTA00000611F.n.20.3	M00004200D:A07
46	5/14/98	1487	46	RTA00000608F.e.01.1	M00003982B:C10
47	5/14/98	1487	47	RTA00000585F.k.21.1	M00001439C:G06
48	5/14/98	1487	48	RTA00000589F.d.07.1	M00004037B:A09
49	5/14/98	1487	49	RTA00000614F.j.07.1	M00004460B:H09
50	5/14/98	1487	50	RTA00000614F.o.08.1	M00004508B:G02
51	5/14/98	1487	51	RTA00000608F.e.11.1	M00003983C:E07
52	5/14/98	1487	52	RTA00000589F.d.08.1	M00004037B:B05
53	5/14/98	1487	53	RTA00000614F.l.09.1	M00004491D:D07
54	5/14/98	1487	54	RTA00000607F.m.15.1	M00003949B:D05
55	5/14/98	1487	55	RTA00000609F.p.17.1	M00004093D:D09
56	5/14/98	1487	56	RTA00000583F.d.22.1	M00001346B:G03
57	5/14/98	1487	57	RTA00000589F.h.07.1	M00004081B:C11
58	5/14/98	1487	58	RTA00000611F.k.19.3	M00004191B:G01
59	5/14/98	1487	59	RTA00000595F.p.10.1	M00001654D:F06
60	5/14/98	1487	60	RTA00000609F.h.01.1	M00004068D:B01
61	5/14/98	1487	61	RTA00000612F.g.24.2	M00004244B:A02
62	5/14/98	1487	62	RTA00000608F.b.10.1	M00003975B:H09
63	5/14/98	1487	63	RTA00000587F.i.12.1	M00001555D:F11
64	5/14/98	1487	64	RTA00000610F.p.02.1	M00004152C:E01
65	5/14/98	1487	65	RTA00000608F.f.15.2	M00003987A:C07
66	5/14/98	1487	66	RTA00000614F.k.11.1	M00004467D:F09
67	5/14/98	1487	67	RTA00000612F.b.10.2	M00004216D:E10
68	5/14/98	1487	68	RTA00000606F.k.11.1	M00003864B:A04
69	5/14/98	1487	69	RTA00000583F.g.18.1	M00001352C:E01
70	5/14/98	1487	70	RTA00000585F.i.13.1	M00001435A:F03
71	5/14/98	1487	71	RTA00000612F.g.11.2	M00004240D:A07
72	5/14/98	1487	72	RTA00000607F.l.05.1	M00003936C:F10
73	5/14/98	1487	73	RTA00000610F.a.11.1	M00004097C:A03
74	5/14/98	1487	74	RTA00000596F.k.09.1	M00003746B:E12
75	5/14/98	1487	75	RTA00000611F.d.11.1	M00004169A:B11
76	5/14/98	1487	76	RTA00000588F.g.06.1	M00003797D:E10
77	5/14/98	1487	77	RTA00000595F.n.15.1	M00001648C:F06
78	5/14/98	1487	78	RTA00000584F.c.22.1	M00001382C:C09
79	5/14/98	1487	79	RTA00000585F.l.17.1	M00001441D:H05

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
80	5/14/98	1487	80	RTA00000608F.k.15.2	M00004029C:B03
81	5/14/98	1487	81	RTA00000597F.g.14.1	M00003789C:E03
82	5/14/98	1487	82	RTA00000588F.n.16.3	M00003906C:H12
83	5/14/98	1487	83	RTA00000606F.o.14.1	M00003886C:D10
84	5/14/98	1487	84	RTA00000608F.n.09.1	M00004037A:A07
85	5/14/98	1487	85	RTA00000613F.h.06.1	M00004329C:F11
86	5/14/98	1487	86	RTA00000587F.l.08.1	M00001564C:D04
87	5/14/98	1487	87	RTA00000590F.d.23.1	M00004350B:F06
88	5/14/98	1487	88	RTA00000609F.i.24.2	M00004073D:E01
89	5/14/98	1487	89	RTA00000614F.j.23.1	M00004465C:B10
90	5/14/98	1487	90	RTA00000587F.p.15.1	M00001582D:B10
91	5/14/98	1487	91	RTA00000640F.a.05.1	M00004190A:A09
92	5/14/98	1487	92	RTA00000609F.k.01.2	M00004077D:D10
93	5/14/98	1487	93	RTA00000589F.e.14.2	M00004054D:D02
94	5/14/98	1487	94	RTA00000586F.a.13.1	M00001455A:E09
95	5/14/98	1487	95	RTA00000590F.d.10.1	M00004337D:G08
96	5/14/98	1487	96	RTA00000608F.i.18.1	M00003998A:D03
97	5/14/98	1487	97	RTA00000608F.m.05.1	M00004034A:E08
98	5/14/98	1487	98	RTA00000597F.p.10.1	M00003820D:E02
99	5/14/98	1487	99	RTA00000585F.n.20.1	M00001446D:B10
100	5/14/98	1487	100	RTA00000584F.a.14.1	M00001377A:D03
101	5/14/98	1487	101	RTA00000609F.p.03.2	M00004092A:C03
102	5/14/98	1487	102	RTA00000606F.f.06.1	M00003841A:E09
103	5/14/98	1487	103	RTA00000609F.o.22.1	M00004091D:D09
104	5/14/98	1487	104	RTA00000587F.d.02.1	M00001537B:C12
105	5/14/98	1487	105	RTA00000612F.n.07.2	M00004277C:H11
106	5/14/98	1487	106	RTA00000606F.p.03.1	M00003888C:E01
107	5/14/98	1487	107	RTA00000589F.g.15.1	M00004076D:B03
108	5/14/98	1487	108	RTA00000610F.b.09.1	M00004102C:F07
109	5/14/98	1487	109	RTA00000603F.a.13.1	M00003820C:A09
110	5/14/98	1487	110	RTA00000606F.o.01.1	M00003883D:C03
111	5/14/98	1487	111	RTA00000589F.c.17.1	M00004030B:C05
112	5/14/98	1487	112	RTA00000589F.k.22.1	M00004140B:B01
113	5/14/98	1487	113	RTA00000585F.k.08.1	M00001438C:H05
114	5/14/98	1487	114	RTA00000595F.a.09.1	M00001586A:F09
115	5/14/98	1487	115	RTA00000597F.g.22.1	M00003790B:F12
116	5/14/98	1487	116	RTA00000597F.c.02.3	M00003773A:C09
117	5/14/98	1487	117	RTA00000587F.b.18.1	M00001530A:D11
118	5/14/98	1487	118	RTA00000606F.a.18.1	M00003824B:D06
119	5/14/98	1487	119	RTA00000612F.j.14.2	M00004260A:B07

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
120	5/14/98	1487	120	RTA00000612F.g.23.3	M00004243C:E10
121	5/14/98	1487	121	RTA00000583F.p.05.1	M00001374C:C09
122	5/14/98	1487	122	RTA00000586F.a.12.1	M00001455A:C03
123	5/14/98	1487	123	RTA00000613F.d.21.1	M00004308A:E06
124	5/14/98	1487	124	RTA00000586F.e.02.2	M00001466C:F02
125	5/14/98	1487	125	RTA00000595F.f.07.1	M00001609A:B12
126	5/14/98	1487	126	RTA00000607F.o.13.2	M00003962B:B09
127	5/14/98	1487	127	RTA00000595F.b.06.1	M00001590D:A07
128	5/14/98	1487	128	RTA00000609F.l.04.2	M00004081C:A01
129	5/14/98	1487	129	RTA00000610F.b.08.1	M00004102B:B04
130	5/14/98	1487	130	RTA00000585F.k.06.1	M00001438B:H06
131	5/14/98	1487	131	RTA00000611F.o.20.5	M00004204B:A04
132	5/14/98	1487	132	RTA00000614F.g.09.1	M00004421A:G04
133	5/14/98	1487	133	RTA00000597F.h.12.1	M00003793C:D11
134	5/14/98	1487	134	RTA00000597F.p.21.1	M00003822A:G05
135	5/14/98	1487	135	RTA00000595F.l.24.2	M00001641B:G05
136	5/14/98	1487	136	RTA00000584F.l.05.1	M00001399C:E10
137	5/14/98	1487	137	RTA00000586F.j.16.1	M00001489B:F08
138	5/14/98	1487	138	RTA00000613F.h.20.1	M00004332B:E11
139	5/14/98	1487	139	RTA00000606F.k.06.1	M00003862C:H10
140	5/14/98	1487	140	RTA00000587F.j.01.1	M00001557C:B08
141	5/14/98	1487	141	RTA00000610F.l.23.1	M00004143A:H07
142	5/14/98	1487	142	RTA00000606F.j.21.1	M00003860B:A07
143	5/14/98	1487	143	RTA00000608F.i.15.1	M00003997D:D07
144	5/14/98	1487	144	RTA00000596F.o.21.1	M00003763D:F06
145	5/14/98	1487	145	RTA00000597F.l.05.1	M00003809B:D08
146	5/14/98	1487	146	RTA00000608F.h.04.1	M00003992D:G01
147	5/14/98	1487	147	RTA00000585F.d.21.1	M00001424A:H09
148	5/14/98	1487	148	RTA00000606F.k.15.1	M00003864C:D09
149	5/14/98	1487	149	RTA00000612F.k.16.2	M00004266A:F10
150	5/14/98	1487	150	RTA00000589F.b.14.1	M00003991B:B05
151	5/14/98	1487	151	RTA00000597F.m.17.1	M00003813D:A06
152	5/14/98	1487	152	RTA00000585F.k.14.1	M00001439B:E02
153	5/14/98	1487	153	RTA00000584F.f.21.1	M00001389B:B06
154	5/14/98	1487	154	RTA00000597F.i.09.1	M00003796C:H03
155	5/14/98	1487	155	RTA00000597F.h.20.1	M00003795A:B01
156	5/14/98	1487	156	RTA00000608F.k.24.1	M00004030B:B02
157	5/14/98	1487	157	RTA00000586F.n.05.1	M00001500B:H07
158	5/14/98	1487	158	RTA00000608F.n.02.1	M00004035D:E04
159	5/14/98	1487	159	RTA00000585F.e.11.2	M00001425C:E10

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
160	5/14/98	1487	160	RTA00000596F.k.08.1	M00003746A:E01
161	5/14/98	1487	161	RTA00000611F.b.14.1	M00004163A:D11
162	5/14/98	1487	162	RTA00000607F.m.10.1	M00003948B:B03
163	5/14/98	1487	163	RTA00000586F.p.01.1	M00001506A:F01
164	5/14/98	1487	164	RTA00000589F.g.08.1	M00004075C:C09
165	5/14/98	1487	165	RTA00000608F.n.19.1	M00004037D:B05
166	5/14/98	1487	166	RTA00000607F.c.16.2	M00003905C:B01
167	5/14/98	1487	167	RTA00000595F.i.09.1	M00001622C:F06
168	5/14/98	1487	168	RTA00000584F.j.10.1	M00001397B:E02
169	5/14/98	1487	169	RTA00000589F.i.13.1	M00004103B:C07
170	5/14/98	1487	170	RTA00000585F.f.04.2	M00001427A:C05
171	5/14/98	1487	171	RTA00000606F.d.24.1	M00003837C:F05
172	5/14/98	1487	172	RTA00000609F.n.22.1	M00004088A:F12
173	5/14/98	1487	173	RTA00000610F.m.14.1	M00004144D:B06
174	5/14/98	1487	174	RTA00000606F.k.17.1	M00003864D:G05
175	5/14/98	1487	175	RTA00000583F.d.06.1	M00001345A:A12
176	5/14/98	1487	176	RTA00000608F.m.09.1	M00004034C:F05
177	5/14/98	1487	177	RTA00000608F.o.17.1	M00004040D:B05
178	5/14/98	1487	178	RTA00000583F.k.15.3	M00001362B:H09
179	5/14/98	1487	179	RTA00000610F.f.16.1	M00004120A:C02
180	5/14/98	1487	180	RTA00000608F.h.19.2	M00003994C:C11
181	5/14/98	1487	181	RTA00000584F.m.07.1	M00001401D:D04
182	5/14/98	1487	182	RTA00000587F.h.20.2	M00001552B:D01
183	5/14/98	1487	183	RTA00000596F.b.01.1	M00001660A:F10
184	5/14/98	1487	184	RTA00000611F.n.13.2	M00004199D:C02
185	5/14/98	1487	185	RTA00000597F.o.06.1	M00003818A:F09
186	5/14/98	1487	186	RTA00000589F.n.03.1	M00004178B:F06
187	5/14/98	1487	187	RTA00000597F.k.07.1	M00003805A:G05
188	5/14/98	1487	188	RTA00000611F.c.19.2	M00004166B:E10
189	5/14/98	1487	189	RTA00000606F.l.12.1	M00003868D:F02
190	5/14/98	1487	190	RTA00000614F.d.22.1	M00004407D:B09
191	5/14/98	1487	191	RTA00000608F.n.16.1	M00004037C:D07
192	5/14/98	1487	192	RTA00000595F.l.20.2	M00001640D:C10
193	5/14/98	1487	193	RTA00000608F.k.22.1	M00004030A:E09
194	5/14/98	1487	194	RTA00000583F.h.23.1	M00001355B:A01
195	5/14/98	1487	195	RTA00000608F.c.23.1	M00003980C:A11
196	5/14/98	1487	196	RTA00000585F.n.01.1	M00001444A:G12
197	5/14/98	1487	197	RTA00000596F.n.08.1	M00003756C:C08
198	5/14/98	1487	198	RTA00000612F.d.16.2	M00004229C:G11
199	5/14/98	1487	199	RTA00000589F.c.19.1	M00004031A:B04

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
200	5/14/98	1487	200	RTA00000584F.j.08.1	M00001397A:F10
201	5/14/98	1487	201	RTA00000583F.j.03.3	M00001358D:D09
202	5/14/98	1487	202	RTA00000597F.j.09.1	M00003801D:F05
203	5/14/98	1487	203	RTA00000614F.n.21.1	M00004506C:H10
204	5/14/98	1487	204	RTA00000606F.d.05.1	M00003833B:A11
205	5/14/98	1487	205	RTA00000589F.d.10.1	M00004038C:D12
206	5/14/98	1487	206	RTA00000597F.p.01.1	M00003820A:H04
207	5/14/98	1487	207	RTA00000586F.l.20.1	M00001496A:B03
208	5/14/98	1487	208	RTA00000607F.c.07.2	M00003903C:A12
209	5/14/98	1487	209	RTA00000595F.b.02.1	M00001589C:D12
210	5/14/98	1487	210	RTA00000597F.n.18.1	M00003816C:F10
211	5/14/98	1487	211	RTA00000612F.d.10.2	M00004228C:D11
212	5/14/98	1487	212	RTA00000609F.n.13.1	M00004086D:A07
213	5/14/98	1487	213	RTA00000610F.b.02.1	M00004101D:A03
214	5/14/98	1487	214	RTA00000590F.a.17.1	M00004249C:E12
215	5/14/98	1487	215	RTA00000587F.i.02.1	M00001553D:B06
216	5/14/98	1487	216	RTA00000583F.p.22.1	M00001376A:H02
217	5/14/98	1487	217	RTA00000609F.d.08.1	M00004054D:A03
218	5/14/98	1487	218	RTA00000609F.k.06.2	M00004078C:A08
219	5/14/98	1487	219	RTA00000585F.i.20.1	M00001435B:G10
220	5/14/98	1487	220	RTA00000585F.e.15.2	M00001426A:F09
221	5/14/98	1487	221	RTA00000595F.c.18.1	M00001597C:B03
222	5/14/98	1487	222	RTA00000596F.p.18.1	M00003766A:G09
223	5/14/98	1487	223	RTA00000611F.l.04.3	M00004193A:C07
224	5/14/98	1487	224	RTA00000614F.o.06.1	M00004508A:G12
225	5/14/98	1487	225	RTA00000586F.o.13.1	M00001504D:D09
226	5/14/98	1487	226	RTA00000612F.o.21.1	M00004283C:D03
227	5/14/98	1487	227	RTA00000585F.k.18.1	M00001439C:A01
228	5/14/98	1487	228	RTA00000611F.o.19.5	M00004204A:D10
229	5/14/98	1487	229	RTA00000611F.l.10.3	M00004193C:H01
230	5/14/98	1487	230	RTA00000612F.b.22.2	M00004217D:G10
231	5/14/98	1487	231	RTA00000583F.n.06.1	M00001370B:B12
232	5/14/98	1487	232	RTA00000611F.p.08.3	M00004206C:G11
233	5/14/98	1487	233	RTA00000607F.e.03.2	M00003909D:G01
234	5/14/98	1487	234	RTA00000607F.b.09.2	M00003896D:B01
235	5/14/98	1487	235	RTA00000585F.j.16.1	M00001436D:C10
236	5/14/98	1487	236	RTA00000607F.g.05.2	M00003915C:G01
237	5/14/98	1487	237	RTA00000586F.o.14.1	M00001505A:E09
238	5/14/98	1487	238	RTA00000607F.h.15.1	M00003920B:A10
239	5/14/98	1487	239	RTA00000586F.m.14.1	M00001499B:H05

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
240	5/14/98	1487	240	RTA00000610F.p.17.1	M00004154D:F11
241	5/14/98	1487	241	RTA00000584F.d.11.1	M00001383C:C07
242	5/14/98	1487	242	RTA00000610F.e.07.1	M00004114C:F02
243	5/14/98	1487	243	RTA00000610F.b.17.1	M00004103B:C09
244	5/14/98	1487	244	RTA00000596F.c.05.1	M00001669A:H11
245	5/14/98	1487	245	RTA00000586F.b.17.1	M00001458B:F06
246	5/14/98	1487	246	RTA00000607F.l.16.1	M00003939A:A02
247	5/14/98	1487	247	RTA00000590F.f.18.2	M00004446A:G01
248	5/14/98	1487	248	RTA00000603F.b.07.1	M00004242C:C01
249	5/14/98	1487	249	RTA00000589F.f.11.1	M00004066A:E12
250	5/14/98	1487	250	RTA00000589F.j.09.1	M00004115A:G09
251	5/14/98	1487	251	RTA00000583F.a.18.1	M00001339B:E05
252	5/14/98	1487	252	RTA00000612F.f.23.3	M00004239C:C09
253	5/14/98	1487	253	RTA00000597F.o.12.1	M00003818C:E09
254	5/14/98	1487	254	RTA00000607F.b.05.2	M00003896B:F08
255	5/14/98	1487	255	RTA00000607F.e.23.2	M00003912C:C11
256	5/14/98	1487	256	RTA00000586F.m.11.1	M00001499A:D05
257	5/14/98	1487	257	RTA00000585F.g.18.2	M00001431A:C10
258	5/14/98	1487	258	RTA00000614F.d.07.1	M00004403A:B05
259	5/14/98	1487	259	RTA00000606F.c.23.1	M00003832B:G03
260	5/14/98	1487	260	RTA00000609F.d.13.1	M00004055B:F06
261	5/14/98	1487	261	RTA00000606F.c.04.1	M00003829A:E02
262	5/14/98	1487	262	RTA00000587F.f.02.1	M00001542C:F06
263	5/14/98	1487	263	RTA00000585F.e.14.2	M00001426A:C02
264	5/14/98	1487	264	RTA00000584F.o.03.2	M00001406D:H01
265	5/14/98	1487	265	RTA00000614F.m.24.1	M00004501A:G06
266	5/14/98	1487	266	RTA00000586F.j.21.1	M00001489D:C08
267	5/14/98	1487	267	RTA00000585F.d.02.2	M00001421C:A03
268	5/14/98	1487	268	RTA00000597F.o.19.1	M00003819D:G09
269	5/14/98	1487	269	RTA00000613F.h.02.1	M00004328A:H06
270	5/14/98	1487	270	RTA00000612F.m.08.2	M00004273D:E11
271	5/14/98	1487	271	RTA00000606F.g.04.1	M00003844C:H05
272	5/14/98	1487	272	RTA00000608F.h.04.2	M00003992D:G01
273	5/14/98	1487	273	RTA00000609F.c.19.3	M00004059A:G09
274	5/14/98	1487	274	RTA00000613F.c.10.1	M00004297D:B08
275	5/14/98	1487	275	RTA00000587F.d.24.1	M00001539B:B01
276	5/14/98	1487	276	RTA00000597F.a.22.5	M00003769D:G12
277	5/14/98	1487	277	RTA00000595F.m.11.1	M00001644D:F09
278	5/14/98	1487	278	RTA00000613F.k.05.1	M00004346B:D06
279	5/14/98	1487	279	RTA00000611F.n.15.2	M00004200A:G06

SEQ ID NO:	Priority Appln Information Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
280	5/14/98	1487	280	RTA00000609F.m.20.2	M00004085B:G06
281	5/14/98	1487	281	RTA00000609F.c.08.1	M00004051C:D10
282	5/14/98	1487	282	RTA00000586F.k.13.1	M00001491C:C01
283	5/14/98	1487	283	RTA00000595F.i.16.1	M00001623D:A09
284	5/14/98	1487	284	RTA00000588F.j.17.3	M00003839D:G06
285	5/14/98	1487	285	RTA00000610F.i.05.1	M00004129A:H08
286	5/14/98	1487	286	RTA00000596F.o.14.1	M00003762A:D11
287	5/14/98	1487	287	RTA00000583F.c.15.1	M00001347B:H01
288	5/14/98	1487	288	RTA00000584F.a.01.2	M00001376B:C11
289	5/14/98	1487	289	RTA00000597F.c.10.4	M00003773D:C02
290	5/14/98	1487	290	RTA00000595F.d.20.1	M00001604B:D09
291	5/14/98	1487	291	RTA00000609F.m.04.2	M00004084A:D11
292	5/14/98	1487	292	RTA00000589F.b.08.1	M00003988C:A06
293	5/14/98	1487	293	RTA00000583F.k.13.3	M00001362B:A09
294	5/14/98	1487	294	RTA00000606F.b.07.1	M00003825C:B02
295	5/14/98	1487	295	RTA00000583F.a.17.1	M00001339B:A03
296	5/14/98	1487	296	RTA00000611F.o.09.5	M00004201D:E12
297	5/14/98	1487	297	RTA00000610F.j.15.1	M00004134C:B11
298	5/14/98	1487	298	RTA00000608F.e.21.1	M00003985A:C01
299	5/14/98	1487	299	RTA00000614F.k.08.1	M00004467A:F09
300	5/14/98	1487	300	RTA00000610F.p.11.1	M00004153D:E06
301	5/14/98	1487	301	RTA00000595F.l.14.1	M00001639A:A04
302	5/14/98	1487	302	RTA00000596F.m.03.1	M00003752A:B06
303	5/14/98	1487	303	RTA00000595F.n.06.2	M00001647C:C07
304	5/14/98	1487	304	RTA00000596F.e.22.2	M00001679C:F03
305	5/14/98	1487	305	RTA00000607F.c.18.2	M00003905C:E10
306	5/14/98	1487	306	RTA00000597F.o.15.1	M00003819A:B09
307	5/14/98	1487	307	RTA00000584F.f.10.1	M00001387D:C07
308	5/14/98	1487	308	RTA00000597F.b.07.5	M00003771A:G09
309	5/14/98	1487	309	RTA00000584F.m.17.1	M00001403B:A01
310	5/14/98	1487	310	RTA00000608F.g.08.2	M00003989C:F01
311	5/14/98	1487	311	RTA00000587F.o.03.1	M00001575A:H02
312	5/14/98	1487	312	RTA00000597F.m.10.1	M00003812D:E08
313	5/14/98	1487	313	RTA00000596F.l.10.1	M00003749D:G07
314	5/14/98	1487	314	RTA00000584F.h.08.1	M00001391D:A07
315	5/14/98	1487	315	RTA00000587F.f.07.1	M00001543A:F01
316	5/14/98	1487	316	RTA00000595F.b.04.1	M00001589D:G10
317	5/14/98	1487	317	RTA00000590F.d.17.1	M00004345A:H06
318	5/14/98	1487	318	RTA00000612F.l.07.2	M00004268D:G07
319	5/14/98	1487	319	RTA00000607F.e.15.2	M00003911C:G05

SEQ ID NO:	Priority Appln Information Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
320	5/14/98	1487	320	RTA00000614F.i.23.1	M00004449D:H01
321	5/14/98	1487	321	RTA00000612F.l.08.2	M00004269A:B11
322	5/14/98	1487	322	RTA00000608F.n.23.1	M00004038C:C05
323	5/14/98	1487	323	RTA00000583F.e.11.1	M00001347A:G06
324	5/14/98	1487	324	RTA00000612F.e.10.3	M00004234B:E03
325	5/14/98	1487	325	RTA00000609F.o.20.1	M00004091C:F04
326	5/14/98	1487	326	RTA00000583F.d.19.1	M00001346B:A07
327	5/14/98	1487	327	RTA00000609F.o.16.2	M00004091B:C12
328	5/14/98	1487	328	RTA00000586F.a.23.1	M00001456C:F02
329	5/14/98	1487	329	RTA00000583F.j.04.3	M00001359A:B07
330	5/14/98	1487	330	RTA00000585F.a.02.3	M00001412D:C03
331	5/14/98	1487	331	RTA00000606F.o.02.1	M00003884B:E06
332	5/14/98	1487	332	RTA00000609F.m.09.2	M00004084C:G04
333	5/14/98	1487	333	RTA00000606F.b.10.1	M00003826B:D01
334	5/14/98	1487	334	RTA00000596F.k.19.1	M00003748B:B06
335	5/14/98	1487	335	RTA00000596F.o.17.1	M00003763B:D03
336	5/14/98	1487	336	RTA00000611F.g.23.1	M00004180B:F04
337	5/14/98	1487	337	RTA00000586F.m.05.1	M00001496D:D02
338	5/14/98	1487	338	RTA00000612F.n.03.2	M00004277B:C06
339	5/14/98	1487	339	RTA00000585F.b.18.3	M00001417B:E01
340	5/14/98	1487	340	RTA00000606F.b.03.1	M00003825B:A05
341	5/14/98	1487	341	RTA00000583F.n.05.1	M00001370B:B04
342	5/14/98	1487	342	RTA00000607F.o.10.2	M00003961B:A12
343	5/14/98	1487	343	RTA00000613F.c.13.1	M00004297D:E08
344	5/14/98	1487	344	RTA00000595F.f.14.1	M00001610B:A01
345	5/14/98	1487	345	RTA00000608F.a.10.3	M00003973A:C05
346	5/14/98	1487	346	RTA00000609F.j.05.3	M00004075A:G10
347	5/14/98	1487	347	RTA00000586F.d.01.1	M00001463C:A01
348	5/14/98	1487	348	RTA00000612F.h.03.3	M00004245A:G09
349	5/14/98	1487	349	RTA00000596F.e.18.2	M00001678D:A12
350	5/14/98	1487	350	RTA00000606F.g.18.1	M00003846B:H02
351	5/14/98	1487	351	RTA00000597F.c.07.4	M00003773B:G08
352	5/14/98	1487	352	RTA00000610F.e.15.1	M00004117B:F01
353	5/14/98	1487	353	RTA00000595F.h.07.1	M00001618C:E06
354	5/14/98	1487	354	RTA00000597F.f.17.1	M00003786D:C06
355	5/14/98	1487	355	RTA00000606F.l.10.1	M00003868B:C07
356	5/14/98	1487	356	RTA00000586F.g.20.1	M00001478A:B06
357	5/14/98	1487	357	RTA00000606F.b.05.1	M00003825B:D12
358	5/14/98	1487	358	RTA00000588F.p.09.2	M00003972B:A11
359	5/14/98	1487	359	RTA00000595F.d.05.1	M00001599A:H09

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
360	5/14/98	1487	360	RTA00000587F.n.19.1	M00001572C:E07
361	5/14/98	1487	361	RTA00000590F.a.02.1	M00004240D:E06
362	5/14/98	1487	362	RTA00000587F.m.18.1	M00001569B:F04
363	5/14/98	1487	363	RTA00000583F.k.09.3	M00001362A:C10
364	5/14/98	1487	364	RTA00000608F.a.23.1	M00003974B:A04
365	5/14/98	1487	365	RTA00000597F.e.22.1	M00003784C:B09
366	5/14/98	1487	366	RTA00000583F.e.21.1	M00001348A:G04
367	5/14/98	1487	367	RTA00000607F.e.20.2	M00003912B:G11
368	5/14/98	1487	368	RTA00000614F.b.16.1	M00004388C:D05
369	5/14/98	1487	369	RTA00000587F.b.03.1	M00001518D:A10
370	5/14/98	1487	370	RTA00000609F.f.02.3	M00004060C:A11
371	5/14/98	1487	371	RTA00000587F.c.20.1	M00001536B:B11
372	5/14/98	1487	372	RTA00000612F.h.05.3	M00004245C:A03
373	5/14/98	1487	373	RTA00000596F.i.13.1	M00001693D:F07
374	5/14/98	1487	374	RTA00000585F.f.01.2	M00001426D:D09
375	5/14/98	1487	375	RTA00000611F.m.07.3	M00004196C:G05
376	5/14/98	1487	376	RTA00000606F.b.08.1	M00003825C:B12
377	5/14/98	1487	377	RTA00000609F.b.10.2	M00004048D:A07
378	5/14/98	1487	378	RTA00000609F.g.13.1	M00004067C:D08
379	5/14/98	1487	379	RTA00000587F.l.11.1	M00001565A:A02
380	5/14/98	1487	380	RTA00000608F.h.07.2	M00003993A:E12
381	5/14/98	1487	381	RTA00000596F.m.21.1	M00003754C:F01
382	5/14/98	1487	382	RTA00000586F.p.11.1	M00001506D:A11
383	5/14/98	1487	383	RTA00000610F.c.01.1	M00004104A:H09
384	5/14/98	1487	384	RTA00000597F.n.10.1	M00003815C:A06
385	5/14/98	1487	385	RTA00000595F.c.14.1	M00001597A:C07
386	5/14/98	1487	386	RTA00000586F.j.09.1	M00001488B:G12
387	5/14/98	1487	387	RTA00000608F.l.20.1	M00004032D:D03
388	5/14/98	1487	388	RTA00000613F.g.13.1	M00004324B:D09
389	5/14/98	1487	389	RTA00000587F.j.21.1	M00001561B:C10
390	5/14/98	1487	390	RTA00000583F.l.16.3	M00001365D:H09
391	5/14/98	1487	391	RTA00000614F.d.16.1	M00004406A:H03
392	5/14/98	1487	392	RTA00000610F.j.11.1	M00004134A:F08
393	5/14/98	1487	393	RTA00000611F.j.11.1	M00004188A:E05
394	5/14/98	1487	394	RTA00000609F.p.14.1	M00004093A:F03
395	5/14/98	1487	395	RTA00000597F.l.18.1	M00003811B:E07
396	5/14/98	1487	396	RTA00000585F.h.03.2	M00001432A:F12
397	5/14/98	1487	397	RTA00000607F.h.23.1	M00003920D:D09
398	5/14/98	1487	398	RTA00000607F.f.23.2	M00003915B:G07
399	5/14/98	1487	399	RTA00000607F.f.18.2	M00003915A:D09

SEQ ID NO:	Priority Appln Information Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
400	5/14/98	1487	400	RTA00000609F.i.23.2	M00004073D:B11
401	5/14/98	1487	401	RTA00000612F.f.05.3	M00004236D:F04
402	5/14/98	1487	402	RTA00000597F.o.07.1	M00003818B:A01
403	5/14/98	1487	403	RTA00000611F.o.06.5	M00004201D:C11
404	5/14/98	1487	404	RTA00000589F.e.05.2	M00004051C:D02
405	5/14/98	1487	405	RTA00000584F.o.07.1	M00001407D:H11
406	5/14/98	1487	406	RTA00000608F.e.06.1	M00003983A:D02
407	5/14/98	1487	407	RTA00000595F.a.22.1	M00001588D:H08
408	5/14/98	1487	408	RTA00000611F.c.03.2	M00004164D:D02
409	5/14/98	1487	409	RTA00000585F.c.03.2	M00001418A:C02
410	5/14/98	1487	410	RTA00000611F.b.07.1	M00004161B:A12
411	5/14/98	1487	411	RTA00000587F.g.09.2	M00001546B:H01
412	5/14/98	1487	412	RTA00000611F.c.11.2	M00004165C:E09
413	5/14/98	1487	413	RTA00000610F.c.18.1	M00004108A:D04
414	5/14/98	1487	414	RTA00000611F.i.21.1	M00004186B:E05
415	5/14/98	1487	415	RTA00000597F.e.11.1	M00003782D:F04
416	5/14/98	1487	416	RTA00000586F.m.02.1	M00001496C:H10
417	5/14/98	1487	417	RTA00000585F.b.20.3	M00001417C:A09
418	5/14/98	1487	418	RTA00000606F.n.15.1	M00003881D:D09
419	5/14/98	1487	419	RTA00000611F.h.17.2	M00004183A:D06
420	5/14/98	1487	420	RTA00000609F.c.15.1	M00004052C:A08
421	5/14/98	1487	421	RTA00000614F.m.10.1	M00004497C:E09
422	5/14/98	1487	422	RTA00000612F.c.08.2	M00004218D:F12
423	5/14/98	1487	423	RTA00000613F.h.22.1	M00004332C:E09
424	5/14/98	1487	424	RTA00000587F.f.05.1	M00001543A:D03
425	5/14/98	1487	425	RTA00000585F.k.04.1	M00001438A:H10
426	5/14/98	1487	426	RTA00000585F.k.15.1	M00001439B:F10
427	5/14/98	1487	427	RTA00000609F.p.04.1	M00004092A:D04
428	5/14/98	1487	428	RTA00000585F.j.01.1	M00001435C:H05
429	5/14/98	1487	429	RTA00000587F.a.20.1	M00001517D:C03
430	5/14/98	1487	430	RTA00000609F.f.04.3	M00004060D:A07
431	5/14/98	1487	431	RTA00000611F.k.13.2	M00004190D:A10
432	5/14/98	1487	432	RTA00000586F.f.08.2	M00001471C:G03
433	5/14/98	1487	433	RTA00000585F.i.14.1	M00001435A:G01
434	5/14/98	1487	434	RTA00000614F.b.08.1	M00004385C:B11
435	5/14/98	1487	435	RTA00000609F.o.04.2	M00004089A:G03
436	5/14/98	1487	436	RTA00000583F.n.03.1	M00001370A:B01
437	5/14/98	1487	437	RTA00000584F.j.05.1	M00001396C:G02
438	5/14/98	1487	438	RTA00000608F.a.16.2	M00003973B:H06
439	5/14/98	1487	439	RTA00000583F.b.15.1	M00001341A:A11

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
440	5/14/98	1487	440	RTA00000596F.a.22.1	M00001659D:G08
441	5/14/98	1487	441	RTA00000589F.c.15.1	M00004030A:G12
442	5/14/98	1487	442	RTA00000610F.o.03.1	M00004149B:H12
443	5/14/98	1487	443	RTA00000596F.e.06.2	M00001677A:A12
444	5/14/98	1487	444	RTA00000607F.p.01.2	M00003965A:F07
445	5/14/98	1487	445	RTA00000611F.c.16.2	M00004166A:F02
446	5/14/98	1487	446	RTA00000611F.b.01.1	M00004159D:H07
447	5/14/98	1487	447	RTA00000612F.b.12.2	M00004217A:A11
448	5/14/98	1487	448	RTA00000584F.h.09.1	M00001391D:A09
449	5/14/98	1487	449	RTA00000612F.g.18.3	M00004242C:C02
450	5/14/98	1487	450	RTA00000609F.b.18.2	M00004049D:G04
451	5/14/98	1487	451	RTA00000608F.f.17.1	M00003987D:F06
452	5/14/98	1487	452	RTA00000589F.e.21.2	M00004058B:F12
453	5/14/98	1487	453	RTA00000606F.j.07.1	M00003857C:A03
454	5/14/98	1487	454	RTA00000610F.b.21.1	M00004103C:F11
455	5/14/98	1487	455	RTA00000611F.c.22.2	M00004166D:G07
456	5/14/98	1487	456	RTA00000583F.d.04.1	M00001344D:G11
457	5/14/98	1487	457	RTA00000610F.h.08.1	M00004126B:G02
458	5/14/98	1487	458	RTA00000596F.a.06.1	M00001658B:C07
459	5/14/98	1487	459	RTA00000612F.o.10.2	M00004281B:B05
460	5/14/98	1487	460	RTA00000610F.l.22.1	M00004143A:G12
461	5/14/98	1487	461	RTA00000612F.o.09.2	M00004281B:B03
462	5/14/98	1487	462	RTA00000596F.f.09.2	M00001681A:H09
463	5/14/98	1487	463	RTA00000607F.p.13.2	M00003970A:G10
464	5/14/98	1487	464	RTA00000610F.e.11.1	M00004115C:H04
465	5/14/98	1487	465	RTA00000611F.b.02.1	M00004160A:A01
466	5/14/98	1487	466	RTA00000608F.j.24.1	M00004027C:H01
467	5/14/98	1487	467	RTA00000614F.k.22.1	M00004470C:A02
468	5/14/98	1487	468	RTA00000612F.h.09.3	M00004247A:E01
469	5/14/98	1487	469	RTA00000587F.f.01.1	M00001542C:D10
470	5/14/98	1487	470	RTA00000608F.d.04.1	M00003980C:G10
471	5/14/98	1487	471	RTA00000585F.m.16.2	M00001443D:C03
472	5/14/98	1487	472	RTA00000613F.c.17.1	M00004298B:D04
473	5/14/98	1487	473	RTA00000613F.h.19.1	M00004332B:D02
474	5/14/98	1487	474	RTA00000609F.d.07.1	M00004054B:G02
475	5/14/98	1487	475	RTA00000606F.o.17.1	M00003887B:C03
476	5/14/98	1487	476	RTA00000585F.n.10.1	M00001445B:E03
477	5/14/98	1487	477	RTA00000612F.p.04.2	M00004284B:F07
478	5/14/98	1487	478	RTA00000589F.c.02.1	M00003997B:H04
479	5/14/98	1487	479	RTA00000608F.p.16.1	M00004044A:F08

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
480	5/14/98	1487	480	RTA00000597F.n.12.1	M00003815D:D01
481	5/14/98	1487	481	RTA00000608F.l.10.1	M00004031A:G05
482	5/14/98	1487	482	RTA00000606F.o.05.1	M00003884D:A12
483	5/14/98	1487	483	RTA00000587F.j.05.1	M00001558B:A12
484	5/14/98	1487	484	RTA00000584F.d.15.1	M00001384A:C09
485	5/14/98	1487	485	RTA00000612F.n.22.1	M00004279D:E02
486	5/14/98	1487	486	RTA00000585F.m.13.2	M00001443D:A01
487	5/14/98	1487	487	RTA00000586F.m.22.1	M00001500A:D09
488	5/14/98	1487	488	RTA00000608F.i.17.1	M00003997D:G11
489	5/14/98	1487	489	RTA00000614F.k.04.1	M00004466A:E09
490	5/14/98	1487	490	RTA00000608F.n.15.1	M00004037C:C05
491	5/14/98	1487	491	RTA00000610F.m.06.1	M00004143C:F08
492	5/14/98	1487	492	RTA00000585F.d.12.2	M00001422D:D02
493	5/14/98	1487	493	RTA00000608F.b.19.1	M00003976D:D12
494	5/14/98	1487	494	RTA00000596F.k.06.1	M00003745C:E03
495	5/14/98	1487	495	RTA00000609F.o.14.2	M00004091A:E01
496	5/14/98	1487	496	RTA00000607F.m.14.1	M00003949B:A08
497	5/14/98	1487	497	RTA00000606F.f.08.1	M00003841B:D05
498	5/14/98	1487	498	RTA00000583F.l.14.3	M00001365D:D12
499	5/14/98	1487	499	RTA00000614F.g.04.1	M00004419D:G01
500	5/14/98	1487	500	RTA00000610F.m.21.1	M00004145C:A03
501	5/14/98	1487	501	RTA00000585F.d.16.1	M00001423C:D06
502	5/14/98	1487	502	RTA00000588F.o.05.2	M00003918C:E07
503	5/14/98	1487	503	RTA00000585F.b.04.3	M00001415D:E12
504	5/14/98	1487	504	RTA00000588F.d.21.1	M00001687C:A06
505	5/14/98	1487	505	RTA00000595F.g.16.1	M00001614C:G04
506	5/14/98	1487	506	RTA00000612F.i.18.2	M00004253B:F06
507	5/14/98	1487	507	RTA00000612F.e.12.1	M00004234B:G06
508	5/14/98	1487	508	RTA00000583F.p.08.1	M00001374D:D09
509	5/14/98	1487	509	RTA00000608F.b.04.1	M00003974C:A05
510	5/14/98	1487	510	RTA00000596F.l.07.1	M00003749B:C08
511	5/14/98	1487	511	RTA00000597F.l.02.1	M00003809A:H12
512	5/14/98	1487	512	RTA00000595F.j.05.1	M00001626C:C10
513	5/14/98	1487	513	RTA00000586F.k.18.1	M00001491D:E07
514	5/14/98	1487	514	RTA00000608F.p.07.1	M00004041D:E06
515	5/14/98	1487	515	RTA00000596F.m.07.1	M00003752D:D09
516	5/14/98	1487	516	RTA00000588F.l.20.2	M00003859C:B09
517	5/14/98	1487	517	RTA00000614F.a.20.1	M00004383A:F02
518	5/14/98	1487	518	RTA00000597F.i.20.1	M00003799B:D02
519	5/14/98	1487	519	RTA00000611F.n.14.3	M00004200A:A09

SEQ ID NO:	Priority Appln Information Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
520	5/14/98	1487	520	RTA00000586F.m.10.1	M00001499A:D01
521	5/14/98	1487	521	RTA00000607F.i.06.4	M00003921D:C06
522	5/14/98	1487	522	RTA00000585F.p.19.2	M00001453B:F08
523	5/14/98	1487	523	RTA00000583F.c.06.1	M00001342C:A04
524	5/14/98	1487	524	RTA00000595F.p.20.1	M00001656D:F11
525	5/14/98	1487	525	RTA00000606F.g.02.1	M00003844C:D04
526	5/14/98	1487	526	RTA00000606F.d.10.1	M00003834A:A03
527	5/14/98	1487	527	RTA00000597F.f.21.1	M00003787B:D07
528	5/14/98	1487	528	RTA00000613F.h.17.1	M00004331D:H08
529	5/14/98	1487	529	RTA00000612F.h.19.3	M00004249D:G02
530	5/14/98	1487	530	RTA00000589F.h.23.1	M00004091B:G04
531	5/14/98	1487	531	RTA00000614F.e.06.1	M00004408D:A10
532	5/14/98	1487	532	RTA00000612F.j.20.2	M00004262C:C01
533	5/14/98	1487	533	RTA00000597F.m.07.1	M00003812B:F08
534	5/14/98	1487	534	RTA00000589F.j.08.1	M00004115A:F01
535	5/14/98	1487	535	RTA00000609F.g.16.1	M00004068A:F02
536	5/14/98	1487	536	RTA00000587F.i.18.1	M00001556D:A11
537	5/14/98	1487	537	RTA00000610F.c.05.1	M00004104D:C09
538	5/14/98	1487	538	RTA00000607F.o.16.2	M00003963B:D12
539	5/14/98	1487	539	RTA00000585F.i.08.1	M00001434C:D05
540	5/14/98	1487	540	RTA00000584F.a.15.2	M00001377A:E01
541	5/14/98	1487	541	RTA00000611F.p.24.2	M00004210A:B09
542	5/14/98	1487	542	RTA00000607F.a.13.3	M00003893C:D12
543	5/14/98	1487	543	RTA00000612F.f.03.1	M00004236D:E07
544	5/14/98	1487	544	RTA00000606F.p.14.1	M00003890B:H07
545	5/14/98	1487	545	RTA00000612F.j.17.2	M00004260C:E10
546	5/14/98	1487	546	RTA00000585F.c.24.2	M00001421A:H07
547	5/14/98	1487	547	RTA00000607F.i.24.2	M00003926B:E03
548	5/14/98	1487	548	RTA00000609F.e.15.3	M00004058C:E08
549	5/14/98	1487	549	RTA00000584F.p.18.1	M00001411C:G02
550	5/14/98	1487	550	RTA00000610F.i.10.1	M00004130C:A09
551	5/14/98	1487	551	RTA00000585F.b.17.3	M00001417B:C07
552	5/14/98	1487	552	RTA00000586F.o.12.1	M00001504C:H11
553	5/14/98	1487	553	RTA00000608F.g.24.1	M00003992C:G01
554	5/14/98	1487	554	RTA00000584F.e.20.1	M00001387A:A04
555	5/14/98	1487	555	RTA00000588F.j.23.3	M00003843A:B01
556	5/14/98	1487	556	RTA00000585F.b.21.3	M00001417C:E02
557	5/14/98	1487	557	RTA00000584F.o.08.1	M00001408A:B02
558	5/14/98	1487	558	RTA00000587F.k.22.1	M00001563C:D06
559	5/14/98	1487	559	RTA00000608F.a.07.3	M00003972C:F02

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
560	5/14/98	1487	560	RTA00000597F.c.04.4	M00003773B:E09
561	5/14/98	1487	561	RTA00000596F.c.06.1	M00001669B:A03
562	5/14/98	1487	562	RTA00000588F.o.01.2	M00003912C:H01
563	5/14/98	1487	563	RTA00000597F.i.16.1	M00003797D:H06
564	5/14/98	1487	564	RTA00000583F.n.07.1	M00001370B:D04
565	5/14/98	1487	565	RTA00000597F.f.07.1	M00003785D:E01
566	5/14/98	1487	566	RTA00000587F.f.06.1	M00001543A:E04
567	5/14/98	1487	567	RTA00000614F.o.11.1	M00004509A:H02
568	5/14/98	1487	568	RTA00000597F.b.16.5	M00003771D:A10
569	5/14/98	1487	569	RTA00000608F.m.19.1	M00004035B:H11
570	5/14/98	1487	570	RTA00000597F.k.21.1	M00003808C:D09
571	5/14/98	1487	571	RTA00000584F.o.13.1	M00001409C:D01
572	5/14/98	1487	572	RTA00000588F.n.10.3	M00003895D:A03
573	5/14/98	1487	573	RTA00000589F.h.17.1	M00004089A:F02
574	5/14/98	1487	574	RTA00000609F.h.13.1	M00004069D:G02
575	5/14/98	1487	575	RTA00000608F.p.15.1	M00004043D:C10
576	5/14/98	1487	576	RTA00000595F.l.16.1	M00001640A:F02
577	5/14/98	1487	577	RTA00000585F.j.21.1	M00001437B:B05
578	5/14/98	1487	578	RTA00000595F.o.01.2	M00001649B:E08
579	5/14/98	1487	579	RTA00000606F.c.03.1	M00003829A:B08
580	5/14/98	1487	580	RTA00000583F.n.04.1	M00001370A:G09
581	5/14/98	1487	581	RTA00000596F.p.20.1	M00003766B:G04
582	5/14/98	1487	582	RTA00000611F.c.20.2	M00004166C:A03
583	5/14/98	1487	583	RTA00000584F.l.19.1	M00001399D:F09
584	5/14/98	1487	584	RTA00000589F.p.23.1	M00004239C:A07
585	5/14/98	1487	585	RTA00000607F.c.09.2	M00003903C:H03
586	5/14/98	1487	586	RTA00000585F.p.23.2	M00001453D:F09
587	5/14/98	1487	587	RTA00000596F.j.13.1	M00003741A:E01
588	5/14/98	1487	588	RTA00000584F.m.03.1	M00001400D:B08
589	5/14/98	1487	589	RTA00000595F.o.03.2	M00001649D:H05
590	5/14/98	1487	590	RTA00000589F.j.03.1	M00004109B:A01
591	5/14/98	1487	591	RTA00000610F.c.14.1	M00004107C:A01
592	5/14/98	1487	592	RTA00000614F.f.02.1	M00004412B:E03
593	5/14/98	1487	593	RTA00000608F.b.23.1	M00003977C:A08
594	5/14/98	1487	594	RTA00000597F.i.06.1	M00003796B:C07
595	5/14/98	1487	595	RTA00000609F.n.20.1	M00004087C:F05
596	5/14/98	1487	596	RTA00000597F.c.08.2	M00003773C:G06
597	5/14/98	1487	597	RTA00000612F.c.05.2	M00004218C:G10
598	5/14/98	1487	598	RTA00000589F.o.14.1	M00004202B:A02
599	5/14/98	1487	599	RTA00000609F.h.15.1	M00004071A:H03

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
600	5/14/98	1487	600	RTA00000596F.p.15.1	M00003765D:E02
601	5/14/98	1487	601	RTA00000597F.k.22.1	M00003809A:A12
602	5/14/98	1487	602	RTA00000608F.k.09.1	M00004028C:D01
603	5/14/98	1487	603	RTA00000612F.p.23.2	M00004287C:B06
604	5/14/98	1487	604	RTA00000610F.n.02.1	M00004146D:A07
605	5/14/98	1487	605	RTA00000587F.h.19.2	M00001551D:C12
606	5/14/98	1487	606	RTA00000607F.k.18.1	M00003934D:F01
607	5/14/98	1487	607	RTA00000588F.m.10.3	M00003868D:F07
608	5/14/98	1487	608	RTA00000612F.p.21.1	M00004287B:B12
609	5/14/98	1487	609	RTA00000585F.m.08.1	M00001443A:E02
610	5/14/98	1487	610	RTA00000612F.d.01.1	M00004225D:F01
611	5/14/98	1487	611	RTA00000596F.d.20.1	M00001675C:B03
612	5/14/98	1487	612	RTA00000611F.k.12.2	M00004190C:G07
613	5/14/98	1487	613	RTA00000612F.j.11.2	M00004257C:A08
614	5/14/98	1487	614	RTA00000614F.j.16.1	M00004463C:F11
615	5/14/98	1487	615	RTA00000611F.k.15.3	M00004190D:G12
616	5/14/98	1487	616	RTA00000612F.j.01.2	M00004253D:F09
617	5/14/98	1487	617	RTA00000606F.o.23.1	M00003888B:A10
618	5/14/98	1487	618	RTA00000606F.i.13.1	M00003852D:D03
619	5/14/98	1487	619	RTA00000588F.i.22.3	M00003833D:D06
620	5/14/98	1487	620	RTA00000585F.j.03.1	M00001435D:A06
621	5/14/98	1487	621	RTA00000608F.i.21.1	M00003998A:G12
622	5/14/98	1487	622	RTA00000584F.o.02.1	M00001406D:B06
623	5/14/98	1487	623	RTA00000608F.m.17.1	M00004035B:F05
624	5/14/98	1487	624	RTA00000612F.k.08.2	M00004263D:F06
625	5/14/98	1487	625	RTA00000608F.p.20.1	M00004045A:B12
626	5/14/98	1487	626	RTA00000610F.n.07.1	M00004147A:G03
627	5/14/98	1487	627	RTA00000608F.j.17.1	M00004027A:B10
628	5/14/98	1487	628	RTA00000596F.n.23.1	M00003759A:E10
629	5/14/98	1487	629	RTA00000612F.a.17.2	M00004214A:D03
630	5/14/98	1487	630	RTA00000612F.i.17.2	M00004253B:A10
631	5/14/98	1487	631	RTA00000585F.p.15.2	M00001452D:E05
632	5/14/98	1487	632	RTA00000614F.m.15.1	M00004498B:E01
633	5/14/98	1487	633	RTA00000607F.a.08.3	M00003892D:D04
634	5/14/98	1487	634	RTA00000606F.p.16.1	M00003890D:C03
635	5/14/98	1487	635	RTA00000610F.j.12.1	M00004134A:H04
636	5/14/98	1487	636	RTA00000608F.o.16.1	M00004040C:G12
637	5/14/98	1487	637	RTA00000588F.o.20.2	M00003958C:C10
638	5/14/98	1487	638	RTA00000585F.p.06.2	M00001451B:H11
639	5/14/98	1487	639	RTA00000610F.j.05.1	M00004133D:A01

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
640	5/14/98	1487	640	RTA00000606F.e.17.1	M00003839C:B05
641	5/14/98	1487	641	RTA00000609F.n.05.1	M00004086A:A03
642	5/14/98	1487	642	RTA00000614F.p.22.1	M00004609C:C11
643	5/14/98	1487	643	RTA00000585F.h.16.2	M00001433A:F04
644	5/14/98	1487	644	RTA00000611F.n.02.3	M00004198D:H04
645	5/14/98	1487	645	RTA00000614F.p.06.1	M00004605C:A09
646	5/14/98	1487	646	RTA00000584F.l.17.1	M00001399D:F01
647	5/14/98	1487	647	RTA00000584F.p.17.1	M00001411C:F02
648	5/14/98	1487	648	RTA00000595F.l.17.1	M00001640A:F04
649	5/14/98	1487	649	RTA00000583F.h.07.1	M00001353B:D11
650	5/14/98	1487	650	RTA00000585F.l.19.1	M00001442A:D08
651	5/14/98	1487	651	RTA00000610F.i.13.1	M00004130D:E04
652	5/14/98	1487	652	RTA00000608F.n.05.1	M00004036B:F09
653	5/14/98	1487	653	RTA00000612F.m.19.1	M00004276C:E12
654	5/14/98	1487	654	RTA00000595F.h.22.1	M00001621C:A04
655	5/14/98	1487	655	RTA00000608F.j.12.1	M00003999C:C12
656	5/14/98	1487	656	RTA00000608F.k.07.2	M00004028C:B04
657	5/14/98	1487	657	RTA00000608F.o.12.1	M00004040B:B09
658	5/14/98	1487	658	RTA00000597F.a.08.5	M00003767C:F04
659	5/14/98	1487	659	RTA00000585F.i.23.1	M00001435C:G08
660	5/14/98	1487	660	RTA00000586F.j.06.1	M00001487D:G03
661	5/14/98	1487	661	RTA00000608F.b.15.1	M00003976C:C05
662	5/14/98	1487	662	RTA00000609F.h.06.1	M00004069B:B01
663	5/14/98	1487	663	RTA00000612F.h.13.3	M00004248A:G08
664	5/14/98	1487	664	RTA00000611F.j.08.1	M00004187C:H09
665	5/14/98	1487	665	RTA00000609F.j.18.1	M00004076A:E02
666	5/14/98	1487	666	RTA00000608F.p.01.1	M00004041B:F01
667	5/14/98	1487	667	RTA00000584F.m.16.1	M00001402D:H03
668	5/14/98	1487	668	RTA00000589F.d.04.1	M00004036C:D01
669	5/14/98	1487	669	RTA00000612F.p.12.2	M00004285B:E01
670	5/14/98	1487	670	RTA00000589F.e.09.1	M00004052C:B05
671	5/14/98	1487	671	RTA00000584F.m.11.1	M00001402C:E09
672	5/14/98	1487	672	RTA00000595F.i.18.1	M00001624A:A09
673	5/14/98	1487	673	RTA00000609F.k.04.2	M00004078A:F03
674	5/14/98	1487	674	RTA00000611F.n.17.2	M00004200B:B04
675	5/14/98	1487	675	RTA00000595F.j.03.1	M00001626B:H05
676	5/14/98	1487	676	RTA00000611F.o.11.3	M00004202B:F04
677	5/14/98	1487	677	RTA00000597F.e.16.1	M00003783C:A06
678	5/14/98	1487	678	RTA00000583F.d.16.1	M00001346A:B09
679	5/14/98	1487	679	RTA00000589F.l.24.1	M00004159D:C04

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
680	5/14/98	1487	680	RTA00000597F.a.17.2	M00003769B:A04
681	5/14/98	1487	681	RTA00000584F.p.22.1	M00001412A:A11
682	5/14/98	1487	682	RTA00000587F.i.23.1	M00001557B:D10
683	5/14/98	1487	683	RTA00000612F.l.16.2	M00004269D:E08
684	5/14/98	1487	684	RTA00000584F.c.01.1	M00001380C:D10
685	5/14/98	1487	685	RTA00000606F.g.21.1	M00003846D:C12
686	5/14/98	1487	686	RTA00000611F.j.12.1	M00004188A:E10
687	5/14/98	1487	687	RTA00000585F.h.10.2	M00001432C:G01
688	5/14/98	1487	688	RTA00000585F.h.10.1	M00001432C:G01
689	5/14/98	1487	689	RTA00000587F.j.15.1	M00001560C:C01
690	5/14/98	1487	690	RTA00000608F.o.06.1	M00004039D:D03
691	5/14/98	1487	691	RTA00000596F.e.05.2	M00001677A:A06
692	5/14/98	1487	692	RTA00000584F.p.07.1	M00001411A:D01
693	5/14/98	1487	693	RTA00000612F.i.13.2	M00004252D:H08
694	5/14/98	1487	694	RTA00000607F.i.14.4	M00003923A:H07
695	5/14/98	1487	695	RTA00000595F.m.17.2	M00001645B:C09
696	5/14/98	1487	696	RTA00000595F.i.02.1	M00001621D:B09
697	5/14/98	1487	697	RTA00000585F.p.12.2	M00001452B:F09
698	5/14/98	1487	698	RTA00000589F.m.02.1	M00004160A:D07
699	5/14/98	1487	699	RTA00000595F.p.11.1	M00001655A:F07
700	5/14/98	1487	700	RTA00000589F.o.15.1	M00004202B:G09
701	5/14/98	1487	701	RTA00000609F.e.12.3	M00004058B:C11
702	5/14/98	1487	702	RTA00000588F.l.13.2	M00003858A:D01
703	5/14/98	1487	703	RTA00000608F.f.22.2	M00003988B:C10
704	5/14/98	1487	704	RTA00000612F.i.11.2	M00004252D:A07
705	5/14/98	1487	705	RTA00000590F.b.13.1	M00004277D:C08
706	5/14/98	1487	706	RTA00000609F.a.21.2	M00004047B:G09
707	5/14/98	1487	707	RTA00000586F.e.12.1	M00001468D:D11
708	5/14/98	1487	708	RTA00000595F.k.10.1	M00001634C:E12
709	5/14/98	1487	709	RTA00000583F.e.02.1	M00001346C:B07
710	5/14/98	1487	710	RTA00000589F.d.01.1	M00004035D:C05
711	5/14/98	1487	711	RTA00000584F.n.14.1	M00001406A:G12
712	5/14/98	1487	712	RTA00000612F.k.21.2	M00004266B:H06
713	5/14/98	1487	713	RTA00000612F.m.05.1	M00004272D:D02
714	5/14/98	1487	714	RTA00000584F.a.20.2	M00001377C:B08
715	5/14/98	1487	715	RTA00000612F.b.11.2	M00004217A:A05
716	5/14/98	1487	716	RTA00000610F.h.13.1	M00004126D:B11
717	5/14/98	1487	717	RTA00000611F.d.04.1	M00004167C:F10
718	5/14/98	1487	718	RTA00000607F.f.12.2	M00003914C:E03
719	5/14/98	1487	719	RTA00000586F.j.10.1	M00001488B:H02

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
720	5/14/98	1487	720	RTA00000584F.p.20.1	M00001411D:C01
721	5/14/98	1487	721	RTA00000612F.i.19.2	M00004253C:E10
722	5/14/98	1487	722	RTA00000608F.i.09.1	M00003996D:C04
723	5/14/98	1487	723	RTA00000584F.g.09.1	M00001390A:H01
724	5/14/98	1487	724	RTA00000584F.n.12.1	M00001405D:F05
725	5/14/98	1487	725	RTA00000584F.j.12.1	M00001397B:H11
726	5/14/98	1487	726	RTA00000611F.h.21.2	M00004183D:B07
727	5/14/98	1487	727	RTA00000606F.l.23.1	M00003871A:E09
728	5/14/98	1487	728	RTA00000585F.b.01.3	M00001415D:A05
729	5/14/98	1487	729	RTA00000595F.i.13.1	M00001623B:B01
730	5/14/98	1487	730	RTA00000589F.l.22.1	M00004158C:F03
731	5/14/98	1487	731	RTA00000608F.l.14.1	M00004031D:G02
732	5/14/98	1487	732	RTA00000614F.k.18.1	M00004469A:C12
733	5/14/98	1487	733	RTA00000609F.g.19.1	M00004068B:D04
734	5/14/98	1487	734	RTA00000606F.g.05.1	M00003845A:A05
735	5/14/98	1487	735	RTA00000585F.i.03.1	M00001434A:A01
736	5/14/98	1487	736	RTA00000590F.a.15.1	M00004247B:C11
737	5/14/98	1487	737	RTA00000612F.j.15.2	M00004260C:A12
738	5/14/98	1487	738	RTA00000612F.g.13.3	M00004241B:B01
739	5/14/98	1487	739	RTA00000606F.d.21.1	M00003835D:H05
740	5/14/98	1487	740	RTA00000584F.b.06.1	M00001378B:F06
741	5/14/98	1487	741	RTA00000614F.e.17.1	M00004410A:E03
742	5/14/98	1487	742	RTA00000612F.a.13.2	M00004213A:H12
743	5/14/98	1487	743	RTA00000585F.o.10.2	M00001448A:D05
744	5/14/98	1487	744	RTA00000588F.i.14.3	M00003830A:A10
745	5/14/98	1487	745	RTA00000595F.e.10.1	M00001605D:G01
746	5/14/98	1487	746	RTA00000584F.b.06.2	M00001378B:F06
747	5/14/98	1487	747	RTA00000608F.j.05.1	M00003998C:H10
748	5/14/98	1487	748	RTA00000611F.j.24.2	M00004190A:C12
749	5/14/98	1487	749	RTA00000606F.h.12.1	M00003850B:D11
750	5/14/98	1487	750	RTA00000608F.c.22.1	M00003980B:F12
751	5/14/98	1487	751	RTA00000588F.b.03.1	M00001618B:F02
752	5/15/98	1488	1	RTA00000623F.c.23.1	M00007118C:G2
753	5/15/98	1488	2	RTA00000592F.e.05.1	M00005799C:C12
754	5/15/98	1488	3	RTA00000590F.p.04.1	M00005390B:G10
755	5/15/98	1488	4	RTA00000621F.m.13.1	M00006986C:G11
756	5/15/98	1488	5	RTA00000625F.n.12.1	M00006604C:H10
757	5/15/98	1488	6	RTA00000624F.b.01.1	M00005539D:G7
758	5/15/98	1488	7	RTA00000618F.h.12.1	M00006698B:E6
759	5/15/98	1488	8	RTA00000615F.h.16.1	M00005015D:D11

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
760	5/15/98	1488	9	RTA00000618F.l.23.1	M00006721C:G7
761	5/15/98	1488	10	RTA00000619F.n.10.3	M00006820A:G5
762	5/15/98	1488	11	RTA00000621F.o.06.1	M00006992C:G2
763	5/15/98	1488	12	RTA00000619F.c.17.1	M00006756D:E10
764	5/15/98	1488	13	RTA00000615F.i.14.1	M00005294D:H2
765	5/15/98	1488	14	RTA00000617F.k.23.1	M00005496D:A10
766	5/15/98	1488	15	RTA00000623F.e.05.1	M00007125D:E3
767	5/15/98	1488	16	RTA00000617F.c.04.1	M00005456B:B7
768	5/15/98	1488	17	RTA00000623F.a.23.1	M00007107A:D11
769	5/15/98	1488	18	RTA00000619F.f.15.1	M00006770B:C5
770	5/15/98	1488	19	RTA00000626F.f.07.1	M00006650A:A10
771	5/15/98	1488	20	RTA00000624F.h.14.1	M00005621D:F1
772	5/15/98	1488	21	RTA00000617F.f.09.2	M00005469D:C11
773	5/15/98	1488	22	RTA00000620F.b.02.1	M00006835B:F4
774	5/15/98	1488	23	RTA00000616F.k.05.1	M00005415D:G2
775	5/15/98	1488	24	RTA00000617F.a.01.1	M00005447B:D2
776	5/15/98	1488	25	RTA00000592F.f.23.1	M00006587A:H8
777	5/15/98	1488	26	RTA00000623F.h.17.1	M00007150A:C9
778	5/15/98	1488	27	RTA00000622F.b.02.1	M00007010B:H1
779	5/15/98	1488	28	RTA00000621F.p.05.1	M00006995C:A2
780	5/15/98	1488	29	RTA00000620F.j.05.1	M00006884D:D6
781	5/15/98	1488	30	RTA00000623F.h.20.1	M00007150A:H6
782	5/15/98	1488	31	RTA00000590F.p.21.1	M00005399A:D1
783	5/15/98	1488	32	RTA00000622F.c.03.1	M00007013B:F2
784	5/15/98	1488	33	RTA00000623F.f.06.1	M00007132B:B11
785	5/15/98	1488	34	RTA00000617F.e.23.2	M00005468A:D8
786	5/15/98	1488	35	RTA00000623F.n.17.1	M00007204C:F9
787	5/15/98	1488	36	RTA00000619F.a.12.1	M00006743B:G12
788	5/15/98	1488	37	RTA00000621F.n.06.1	M00006989B:C11
789	5/15/98	1488	38	RTA00000623F.a.18.1	M00007105D:C7
790	5/15/98	1488	39	RTA00000624F.a.15.1	M00005534B:H10
791	5/15/98	1488	40	RTA00000625F.h.04.1	M00005810C:D4
792	5/15/98	1488	41	RTA00000591F.g.05.1	M00005460B:D2
793	5/15/98	1488	42	RTA00000620F.i.14.1	M00006882A:D1
794	5/15/98	1488	43	RTA00000624F.a.14.1	M00005534A:G6
795	5/15/98	1488	44	RTA00000621F.h.14.1	M00006960D:E6
796	5/15/98	1488	45	RTA00000617F.k.19.1	M00005494D:F11
797	5/15/98	1488	46	RTA00000625F.d.17.1	M00005763B:H9
798	5/15/98	1488	47	RTA00000620F.l.13.1	M00006901D:A11
799	5/15/98	1488	48	RTA00000623F.g.04.1	M00007140A:F11

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
800	5/15/98	1488	49	RTA00000622F.b.03.1	M00007010B:H3
801	5/15/98	1488	50	RTA00000615F.k.17.1	M00005342A:C4
802	5/15/98	1488	51	RTA00000618F.m.11.1	M00006725A:A3
803	5/15/98	1488	52	RTA00000618F.e.06.1	M00006686A:G12
804	5/15/98	1488	53	RTA00000619F.k.08.1	M00006805B:C4
805	5/15/98	1488	54	RTA00000590F.h.23.2	M00004840C:F2
806	5/15/98	1488	55	RTA00000622F.c.09.1	M00007014C:B7
807	5/15/98	1488	56	RTA00000619F.h.17.1	M00006785B:F9
808	5/15/98	1488	57	RTA00000617F.d.01.1	M00005460A:B10
809	5/15/98	1488	58	RTA00000620F.b.17.1	M00006837C:G6
810	5/15/98	1488	59	RTA00000616F.c.13.1	M00005383D:D6
811	5/15/98	1488	60	RTA00000619F.g.16.1	M00006779B:A11
812	5/15/98	1488	61	RTA00000591F.i.12.1	M00005480A:H12
813	5/15/98	1488	62	RTA00000615F.b.20.1	M00004846A:D2
814	5/15/98	1488	63	RTA00000615F.l.18.1	M00005352C:G9
815	5/15/98	1488	64	RTA00000591F.m.19.1	M00005519B:H4
816	5/15/98	1488	65	RTA00000620F.i.10.1	M00006879A:H11
817	5/15/98	1488	66	RTA00000618F.o.02.1	M00006733D:G12
818	5/15/98	1488	67	RTA00000620F.c.18.1	M00006846A:B1
819	5/15/98	1488	68	RTA00000624F.a.07.1	M00005530B:D3
820	5/15/98	1488	69	RTA00000592F.c.10.1	M00005704A:B11
821	5/15/98	1488	70	RTA00000618F.c.04.1	M00006676B:F11
822	5/15/98	1488	71	RTA00000591F.f.04.1	M00005452C:A2
823	5/15/98	1488	72	RTA00000617F.k.22.1	M00005496C:A1
824	5/15/98	1488	73	RTA00000626F.c.02.1	M00006644A:B11
825	5/15/98	1488	74	RTA00000592F.d.09.1	M00005765C:C4
826	5/15/98	1488	75	RTA00000615F.n.23.1	M00005359D:H8
827	5/15/98	1488	76	RTA00000591F.i.15.1	M00005480C:B12
828	5/15/98	1488	77	RTA00000624F.a.11.1	M00005531B:A3
829	5/15/98	1488	78	RTA00000590F.i.01.1	M00004841C:B9
830	5/15/98	1488	79	RTA00000626F.d.05.1	M00006640A:B1
831	5/15/98	1488	80	RTA00000591F.e.19.1	M00005450A:B10
832	5/15/98	1488	81	RTA00000625F.m.06.1	M00006594A:E8
833	5/15/98	1488	82	RTA00000615F.k.22.1	M00005342B:G10
834	5/15/98	1488	83	RTA00000615F.m.11.1	M00005354C:E2
835	5/15/98	1488	84	RTA00000624F.j.16.1	M00005631A:A11
836	5/15/98	1488	85	RTA00000626F.d.07.1	M00006640B:F5
837	5/15/98	1488	86	RTA00000620F.p.19.1	M00006923C:B1
838	5/15/98	1488	87	RTA00000615F.f.10.1	M00004999A:F1
839	5/15/98	1488	88	RTA00000615F.b.19.1	M00004845D:E11

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
840	5/15/98	1488	89	RTA00000626F.a.07.1	M00006626A:G11
841	5/15/98	1488	90	RTA00000592F.b.20.1	M00005685B:D8
842	5/15/98	1488	91	RTA00000622F.p.16.1	M00007100C:D1
843	5/15/98	1488	92	RTA00000620F.a.16.1	M00006834A:C8
844	5/15/98	1488	93	RTA00000623F.e.21.1	M00007130B:B3
845	5/15/98	1488	94	RTA00000619F.k.05.1	M00006805A:E11
846	5/15/98	1488	95	RTA00000626F.c.10.1	M00006636D:A5
847	5/15/98	1488	96	RTA00000619F.i.13.1	M00006791B:B8
848	5/15/98	1488	97	RTA00000620F.k.22.1	M00006895D:E10
849	5/15/98	1488	98	RTA00000617F.a.17.1	M00005450D:D2
850	5/15/98	1488	99	RTA00000617F.c.18.1	M00005457D:C8
851	5/15/98	1488	100	RTA00000626F.g.12.1	M00006664B:B4
852	5/15/98	1488	101	RTA00000617F.j.11.1	M00005489A:F6
853	5/15/98	1488	102	RTA00000621F.c.11.1	M00006936B:E9
854	5/15/98	1488	103	RTA00000623F.f.12.1	M00007134B:G7
855	5/15/98	1488	104	RTA00000626F.g.17.1	M00006665A:F7
856	5/15/98	1488	105	RTA00000619F.o.06.4	M00006823D:D12
857	5/15/98	1488	106	RTA00000625F.j.10.1	M00005837A:D12
858	5/15/98	1488	107	RTA00000620F.k.12.1	M00006893C:F2
859	5/15/98	1488	108	RTA00000625F.j.06.1	M00005828D:C9
860	5/15/98	1488	109	RTA00000616F.b.12.1	M00005378A:A8
861	5/15/98	1488	110	RTA00000620F.d.04.1	M00006850C:G7
862	5/15/98	1488	111	RTA00000624F.n.20.1	M00005655D:C4
863	5/15/98	1488	112	RTA00000620F.m.14.1	M00006907C:D3
864	5/15/98	1488	113	RTA00000625F.m.15.1	M00006596D:H4
865	5/15/98	1488	114	RTA00000619F.g.19.1	M00006779D:D3
866	5/15/98	1488	115	RTA00000626F.b.10.1	M00006633D:A6
867	5/15/98	1488	116	RTA00000618F.c.23.1	M00006679C:D7
868	5/15/98	1488	117	RTA00000591F.o.17.1	M00005616B:D5
869	5/15/98	1488	118	RTA00000615F.b.23.1	M00004846D:H9
870	5/15/98	1488	119	RTA00000616F.e.20.1	M00005394A:G7
871	5/15/98	1488	120	RTA00000625F.b.23.1	M00005720B:D9
872	5/15/98	1488	121	RTA00000616F.i.13.4	M00005409D:C2
873	5/15/98	1488	122	RTA00000624F.l.02.1	M00005637D:C5
874	5/15/98	1488	123	RTA00000619F.b.06.1	M00006745D:E8
875	5/15/98	1488	124	RTA00000626F.b.23.1	M00006636A:E6
876	5/15/98	1488	125	RTA00000615F.k.24.1	M00005342D:F3
877	5/15/98	1488	126	RTA00000621F.h.22.1	M00006963A:H11
878	5/15/98	1488	127	RTA00000626F.b.05.1	M00006631D:C4
879	5/15/98	1488	128	RTA00000621F.i.20.2	M00006966D:G3

	Priority Appln Information				
SEQ . ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
880	5/15/98	1488	129	RTA00000624F.m.10.1	M00005646D:B3
881	5/15/98	1488	130	RTA00000623F.m.19.1	M00007198C:A10
882	5/15/98	1488	131	RTA00000622F.c.12.1	M00007014D:D4
883	5/15/98	1488	132	RTA00000617F.i.08.1	M00005483D:A2
884	5/15/98	1488	133	RTA00000625F.b.07.1	M00005710A:C8
885	5/15/98	1488	134	RTA00000620F.f.23.1	M00006867C:E7
886	5/15/98	1488	135	RTA00000620F.f.15.1	M00006866C:F3
887	5/15/98	1488	136	RTA00000621F.k.17.1	M00006974B:D6
888	5/15/98	1488	137	RTA00000625F.h.18.1	M00005813D:F6
889	5/15/98	1488	138	RTA00000622F.p.17.1	M00007101A:A11
890	5/15/98	1488	139	RTA00000620F.d.08.1	M00006851C:H9
891	5/15/98	1488	140	RTA00000621F.i.14.2	M00006966B:B9
892	5/15/98	1488	141	RTA00000625F.j.19.1	M00006576D:F11
893	5/15/98	1488	142	RTA00000618F.o.23.1	M00006737C:A8
894	5/15/98	1488	143	RTA00000618F.m.12.1	M00006725A:B3
895	5/15/98	1488	144	RTA00000625F.o.19.1	M00006616D:C8
896	5/15/98	1488	145	RTA00000619F.a.18.1	M00006744C:C6
897	5/15/98	1488	146	RTA00000624F.c.15.1	M00005565C:A8
898	5/15/98	1488	147	RTA00000617F.e.13.2	M00005465C:H2
899	5/15/98	1488	148	RTA00000592F.j.06.1	M00006664D:H9
900	5/15/98	1488	149	RTA00000615F.n.18.1	M00005359B:G1
901	5/15/98	1488	150	RTA00000624F.c.02.1	M00005550B:D9
902	5/15/98	1488	151	RTA00000620F.j.10.1	M00006886A:D6
903	5/15/98	1488	152	RTA00000620F.e.07.1	M00006860B:H1
904	5/15/98	1488	153	RTA00000625F.g.07.1	M00005798B:C11
905	5/15/98	1488	154	RTA00000617F.d.22.1	M00005462C:B2
906	5/15/98	1488	155	RTA00000622F.a.12.1	M00007006D:D4
907	5/15/98	1488	156	RTA00000620F.i.11.1	M00006879D:A10
908	5/15/98	1488	157	RTA00000616F.k.03.1	M00005415C:G8
909	5/15/98	1488	158	RTA00000624F.k.17.1	M00005636C:D11
910	5/15/98	1488	159	RTA00000615F.f.11.1	M00004999B:D12
911	5/15/98	1488	160	RTA00000620F.o.07.1	M00006917C:E7
912	5/15/98	1488	161	RTA00000617F.k.11.1	M00005493B:C8
913	5/15/98	1488	162	RTA00000622F.g.04.1	M00007037B:D4
914	5/15/98	1488	163	RTA00000591F.n.04.1	M00005528D:H6
915	5/15/98	1488	164	RTA00000625F.a.16.1	M00005706D:A9
916	5/15/98	1488	165	RTA00000620F.m.18.1	M00006908C:A5
917	5/15/98	1488	166	RTA00000620F.a.04.1	M00006832D:F10
918	5/15/98	1488	167	RTA00000624F.j.20.1	M00005632C:D6
919	5/15/98	1488	168	RTA00000590F.n.19.1	M00005378C:A10

SEQ ID NO:	Priority Appln Information Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
920	5/15/98	1488	169	RTA00000626F.c.13.1	M00006636D:F11
921	5/15/98	1488	170	RTA00000617F.f.01.2	M00005468B:D4
922	5/15/98	1488	171	RTA00000621F.i.18.2	M00006966C:B7
923	5/15/98	1488	172	RTA00000617F.a.13.1	M00005450A:A2
924	5/15/98	1488	173	RTA00000591F.m.06.1	M00005513A:D8
925	5/15/98	1488	174	RTA00000615F.g.07.1	M00005004B:C11
926	5/15/98	1488	175	RTA00000616F.o.24.1	M00005442D:C5
927	5/15/98	1488	176	RTA00000617F.a.20.1	M00005451A:E3
928	5/15/98	1488	177	RTA00000626F.a.18.1	M00006629D:D4
929	5/15/98	1488	178	RTA00000616F.c.23.1	M00005385C:D8
930	5/15/98	1488	179	RTA00000623F.m.07.1	M00007193D:A4
931	5/15/98	1488	180	RTA00000620F.h.18.1	M00006875D:D10
932	5/15/98	1488	181	RTA00000615F.l.16.1	M00005352B:D2
933	5/15/98	1488	182	RTA00000592F.c.17.1	M00005708D:B3
934	5/15/98	1488	183	RTA00000616F.c.24.1	M00005385C:G5
935	5/15/98	1488	184	RTA00000619F.l.16.1	M00006813A:C4
936	5/15/98	1488	185	RTA00000622F.c.18.1	M00007015C:G5
937	5/15/98	1488	186	RTA00000620F.p.09.1	M00006921B:E3
938	5/15/98	1488	187	RTA00000626F.f.08.1	M00006650A:B11
939	5/15/98	1488	188	RTA00000621F.h.08.1	M00006960A:G11
940	5/15/98	1488	189	RTA00000591F.g.19.1	M00005466A:F12
941	5/15/98	1488	190	RTA00000623F.m.10.1	M00007195B:B2
942	5/15/98	1488	191	RTA00000619F.j.13.1	M00006796A:H10
943	5/15/98	1488	192	RTA00000619F.f.22.1	M00006771A:H7
944	5/15/98	1488	193	RTA00000622F.m.06.1	M00007075C:D8
945	5/15/98	1488	194	RTA00000623F.i.03.1	M00007154A:E4
946	5/15/98	1488	195	RTA00000625F.k.08.1	M00006581D:H8
947	5/15/98	1488	196	RTA00000615F.c.13.1	M00004854A:C9
948	5/15/98	1488	197	RTA00000619F.j.11.1	M00006796A:C3
949	5/15/98	1488	198	RTA00000619F.o.01.1	M00006822D:F7
950	5/15/98	1488	199	RTA00000590F.h.12.2	M00004826A:E9
951	5/15/98	1488	200	RTA00000623F.d.07.1	M00007121C:H1
952	5/15/98	1488	201	RTA00000616F.f.24.1	M00005397C:B3
953	5/15/98	1488	202	RTA00000625F.o.03.1	M00006609A:G10
954	5/15/98	1488	203	RTA00000619F.k.20.1	M00006807D:D8
955	5/15/98	1488	204	RTA00000625F.n.22.1	M00006607B:F4
956	5/15/98	1488	205	RTA00000625F.n.03.1	M00006601D:F4
957	5/15/98	1488	206	RTA00000619F.c.13.1	M00006756B:B8
958	5/15/98	1488	207	RTA00000625F.g.21.1	M00005805D:E6
959	5/15/98	1488	208	RTA00000620F.g.06.1	M00006868D:E2

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
960	5/15/98	1488	209	RTA00000622F.l.04.1	M00007065B:B12
961	5/15/98	1488	210	RTA00000624F.d.21.1	M00005587B:H2
962	5/15/98	1488	211	RTA00000622F.f.20.1	M00007036A:D2
963	5/15/98	1488	212	RTA00000616F.d.09.1	M00005388A:F7
964	5/15/98	1488	213	RTA00000620F.n.05.1	M00006912B:E1
965	5/15/98	1488	214	RTA00000624F.k.22.1	M00005637B:D12
966	5/15/98	1488	215	RTA00000618F.p.11.1	M00006739B:B12
967	5/15/98	1488	216	RTA00000615F.g.09.1	M00005005C:E6
968	5/15/98	1488	217	RTA00000618F.j.23.1	M00006712B:H10
969	5/15/98	1488	218	RTA00000617F.l.02.1	M00005497B:H7
970	5/15/98	1488	219	RTA00000617F.l.09.1	M00005498B:F8
971	5/15/98	1488	220	RTA00000625F.n.21.1	M00006607B:E3
972	5/15/98	1488	221	RTA00000623F.c.20.1	M00007118B:B4
973	5/15/98	1488	222	RTA00000603F.d.13.1	M00007019A:B1
974	5/15/98	1488	223	RTA00000625F.k.06.1	M00006581C:D2
975	5/15/98	1488	224	RTA00000624F.b.23.1	M00005548B:E3
976	5/15/98	1488	225	RTA00000626F.d.11.1	M00006640D:H8
977	5/15/98	1488	226	RTA00000620F.g.14.1	M00006870C:H6
978	5/15/98	1488	227	RTA00000621F.l.17.1	M00006980A:F2
979	5/15/98	1488	228	RTA00000624F.o.13.1	M00005685A:A4
980	5/15/98	1488	229	RTA00000621F.k.18.1	M00006974B:F6
981	5/15/98	1488	230	RTA00000591F.a.23.1	M00005411D:A3
982	5/15/98	1488	231	RTA00000592F.i.01.1	M00006641C:H2
983	5/15/98	1488	232	RTA00000625F.p.10.1	M00006619B:C11
984	5/15/98	1488	233	RTA00000622F.h.04.1	M00007041B:C5
985	5/15/98	1488	234	RTA00000591F.e.08.1	M00005446A:G1
986	5/15/98	1488	235	RTA00000619F.d.13.1	M00006758D:C4
987	5/15/98	1488	236	RTA00000622F.p.10.1	M00007099A:F9
988	5/15/98	1488	237	RTA00000623F.m.04.1	M00007192C:H8
989	5/15/98	1488	238	RTA00000617F.i.06.1	M00005483A:F5
990	5/15/98	1488	239	RTA00000624F.d.24.1	M00005589C:B3
991	5/15/98	1488	240	RTA00000616F.p.08.1	M00005444B:E11
992	5/15/98	1488	241	RTA00000615F.j.18.1	M00005326B:F3
993	5/15/98	1488	242	RTA00000625F.p.19.1	M00006621A:G10
994	5/15/98	1488	243	RTA00000624F.h.09.1	M00005620C:C5
995	5/15/98	1488	244	RTA00000619F.d.23.1	M00006760D:G12
996	5/15/98	1488	245	RTA00000618F.f.24.1	M00006692B:E4
997	5/15/98	1488	246	RTA00000617F.l.12.1	M00005498C:G5
998	5/15/98	1488	247	RTA00000621F.o.09.1	M00006993B:B9
999	5/15/98	1488	248	RTA00000616F.p.04.1	M00005443D:C12

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1000	5/15/98	1488	249	RTA00000620F.c.08.1	M00006841D:A8
1001	5/15/98	1488	250	RTA00000625F.n.01.1	M00006601C:A7
1002	5/15/98	1488	251	RTA00000617F.k.10.1	M00005493B:A12
1003	5/15/98	1488	252	RTA00000624F.l.11.1	M00005641B:E2
1004	5/15/98	1488	253	RTA00000624F.h.06.1	M00005619C:H10
1005	5/15/98	1488	254	RTA00000624F.h.11.1	M00005621A:G10
1006	5/15/98	1488	255	RTA00000590F.h.07.2	M00004824C:G9
1007	5/15/98	1488	256	RTA00000590F.o.09.1	M00005384A:A1
1008	5/15/98	1488	257	RTA00000620F.e.16.1	M00006863B:E6
1009	5/15/98	1488	258	RTA00000620F.k.11.1	M00006893C:B2
1010	5/15/98	1488	259	RTA00000619F.o.18.4	M00006825C:D6
1011	5/15/98	1488	260	RTA00000621F.k.03.1	M00006972A:F10
1012	5/15/98	1488	261	RTA00000625F.c.11.1	M00005722D:G3
1013	5/15/98	1488	262	RTA00000618F.n.05.1	M00006727B:G8
1014	5/15/98	1488	263	RTA00000623F.d.02.1	M00007119B:H10
1015	5/15/98	1488	264	RTA00000615F.k.05.1	M00005330C:F9
1016	5/15/98	1488	265	RTA00000623F.f.09.1	M00007132D:G8
1017	5/15/98	1488	266	RTA00000622F.d.01.1	M00007016C:E6
1018	5/15/98	1488	267	RTA00000618F.p.10.1	M00006739B:B10
1019	5/15/98	1488	268	RTA00000624F.l.23.1	M00005645D:F8
1020	5/15/98	1488	269	RTA00000619F.e.19.1	M00006764B:D5
1021	5/15/98	1488	270	RTA00000622F.h.12.1	M00007043A:B5
1022	5/15/98	1488	271	RTA00000622F.i.23.1	M00007051D:D9
1023	5/15/98	1488	272	RTA00000624F.l.13.1	M00005642B:C3
1024	5/15/98	1488	273	RTA00000624F.a.04.1	M00005528D:A10
1025	5/15/98	1488	274	RTA00000622F.e.17.1	M00007031C:D1
1026	5/15/98	1488	275	RTA00000590F.l.12.1	M00005353B:B9
1027	5/15/98	1488	276	RTA00000626F.f.01.1	M00006648C:E4
1028	5/15/98	1488	277	RTA00000620F.a.05.1	M00006832D:F11
1029	5/15/98	1488	278	RTA00000623F.d.04.1	M00007121A:A5
1030	5/15/98	1488	279	RTA00000618F.p.15.1	M00006739C:H7
1031	5/15/98	1488	280	RTA00000618F.o.03.1	M00006734A:H12
1032	5/15/98	1488	281	RTA00000640F.b.02.1	M00006927C:F12
1033	5/15/98	1488	282	RTA00000619F.g.20.1	M00006780A:H12
1034	5/15/98	1488	283	RTA00000618F.n.09.1	M00006728C:B6
1035	5/15/98	1488	284	RTA00000621F.d.09.1	M00006939B:E5
1036	5/15/98	1488	285	RTA00000619F.n.23.4	M00006822D:D5
1037	5/15/98	1488	286	RTA00000616F.k.16.1	M00005417A:E10
1038	5/15/98	1488	287	RTA00000625F.f.21.1	M00005783A:C5
1039	5/15/98	1488	288	RTA00000619F.b.17.1	M00006751B:B11

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1040	5/15/98	1488	289	RTA00000622F.h.11.1	M00007042A:E7
1041	5/15/98	1488	290	RTA00000621F.k.12.1	M00006973D:E11
1042	5/15/98	1488	291	RTA00000620F.p.08.1	M00006921B:E1
1043	5/15/98	1488	292	RTA00000625F.d.13.1	M00005762D:A1
1044	5/15/98	1488	293	RTA00000592F.g.18.1	M00006618C:G8
1045	5/15/98	1488	294	RTA00000622F.b.17.1	M00007012B:D7
1046	5/15/98	1488	295	RTA00000624F.i.07.1	M00005625D:C3
1047	5/15/98	1488	296	RTA00000619F.c.01.1	M00006754B:D5
1048	5/15/98	1488	297	RTA00000621F.a.07.1	M00006926A:H11
1049	5/15/98	1488	298	RTA00000620F.d.21.1	M00006855C:H2
1050	5/15/98	1488	299	RTA00000616F.c.15.1	M00005383D:E7
1051	5/15/98	1488	300	RTA00000619F.n.19.4	M00006822A:D7
1052	5/15/98	1488	301	RTA00000615F.l.09.1	M00005349B:G1
1053	5/15/98	1488	302	RTA00000626F.b.04.1	M00006631D:B2
1054	5/15/98	1488	303	RTA00000617F.j.23.1	M00005491B:C3
1055	5/15/98	1488	304	RTA00000615F.k.14.1	M00005333C:C8
1056	5/15/98	1488	305	RTA00000616F.l.07.1	M00005419A:D5
1057	5/15/98	1488	306	RTA00000619F.d.04.1	M00006758A:B12
1058	5/15/98	1488	307	RTA00000622F.o.15.1	M00007093A:F9
1059	5/15/98	1488	308	RTA00000625F.m.11.1	M00006594D:F9
1060	5/15/98	1488	309	RTA00000619F.e.10.1	M00006763B:B11
1061	5/15/98	1488	310	RTA00000617F.n.15.1	M00005508B:B4
1062	5/15/98	1488	311	RTA00000615F.n.22.1	M00005359D:G7
1063	5/15/98	1488	312	RTA00000622F.j.21.1	M00007058A:C2
1064	5/15/98	1488	313	RTA00000625F.c.09.1	M00005722A:E9
1065	5/15/98	1488	314	RTA00000591F.m.01.1	M00005510B:D6
1066	5/15/98	1488	315	RTA00000617F.n.14.1	M00005508A:H1
1067	5/15/98	1488	316	RTA00000624F.p.18.1	M00005703A:C8
1068	5/15/98	1488	317	RTA00000623F.j.10.2	M00007163B:A12
1069	5/15/98	1488	318	RTA00000591F.e.20.1	M00005450B:B1
1070	5/15/98	1488	319	RTA00000615F.i.11.1	M00005294C:G8
1071	5/15/98	1488	320	RTA00000622F.p.12.1	M00007099C:F9
1072	5/15/98	1488	321	RTA00000619F.j.22.1	M00006800C:G8
1073	5/15/98	1488	322	RTA00000621F.g.12.1	M00006953D:H11
1074	5/15/98	1488	323	RTA00000617F.m.14.1	M00005505A:C8
1075	5/15/98	1488	324	RTA00000619F.k.06.1	M00006805A:H9
1076	5/15/98	1488	325	RTA00000616F.k.18.1	M00005417C:E10
1077	5/15/98	1488	326	RTA00000625F.d.04.1	M00005743B:F2
1078	5/15/98	1488	327	RTA00000626F.b.06.1	M00006631D:E9
1079	5/15/98	1488	328	RTA00000621F.p.15.1	M00006997B:E6

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1080	5/15/98	1488	329	RTA00000618F.d.19.1	M00006681C:G4
1081	5/15/98	1488	330	RTA00000618F.a.02.1	M00006665B:D10
1082	5/15/98	1488	331	RTA00000592F.f.15.1	M00006577B:H12
1083	5/15/98	1488	332	RTA00000619F.d.12.1	M00006758D:C1
1084	5/15/98	1488	333	RTA00000624F.d.08.1	M00005571A:E11
1085	5/15/98	1488	334	RTA00000620F.o.15.1	M00006919B:C3
1086	5/15/98	1488	335	RTA00000620F.e.03.1	M00006859A:F6
1087	5/15/98	1488	336	RTA00000622F.a.24.1	M00007010B:C11
1088	5/15/98	1488	337	RTA00000619F.n.04.2	M00006819A:D10
1089	5/15/98	1488	338	RTA00000616F.d.16.1	M00005388D:F9
1090	5/15/98	1488	339	RTA00000622F.n.15.1	M00007085A:B7
1091	5/15/98	1488	340	RTA00000619F.i.04.1	M00006789C:F4
1092	5/15/98	1488	341	RTA00000617F.i.13.1	M00005484A:D9
1093	5/15/98	1488	342	RTA00000616F.l.11.1	M00005419C:D9
1094	5/15/98	1488	343	RTA00000617F.b.18.1	M00005454C:H12
1095	5/15/98	1488	344	RTA00000618F.j.01.1	M00006705B:D2
1096	5/15/98	1488	345	RTA00000618F.k.24.1	M00006717A:D4
1097	5/15/98	1488	346	RTA00000618F.c.05.1	M00006676D:D11
1098	5/15/98	1488	347	RTA00000619F.g.08.1	M00006777B:D10
1099	5/15/98	1488	348	RTA00000618F.n.04.1	M00006727B:E9
1100	5/15/98	1488	349	RTA00000617F.i.09.1	M00005483D:A12
1101	5/15/98	1488	350	RTA00000617F.l.04.1	M00005497C:C7
1102	5/15/98	1488	351	RTA00000619F.n.17.4	M00006821C:C10
1103	5/15/98	1488	352	RTA00000622F.l.09.1	M00007065D:C1
1104	5/15/98	1488	353	RTA00000623F.j.03.2	M00007161A:H3
1105	5/15/98	1488	354	RTA00000615F.m.17.1	M00005356A:D9
1106	5/15/98	1488	355	RTA00000616F.g.13.1	M00005400A:D2
1107	5/15/98	1488	356	RTA00000615F.f.15.1	M00004999D:E1
1108	5/15/98	1488	357	RTA00000591F.f.15.1	M00005455A:D1
1109	5/15/98	1488	358	RTA00000592F.g.07.1	M00006596A:F7
1110	5/15/98	1488	359	RTA00000625F.o.16.1	M00006615D:F4
1111	5/15/98	1488	360	RTA00000622F.f.13.1	M00007033D:F4
1112	5/15/98	1488	361	RTA00000619F.p.02.3	M00006826B:H3
1113	5/15/98	1488	362	RTA00000625F.h.11.1	M00005812C:F10
1114	5/15/98	1488	363	RTA00000591F.i.05.1	M00005477C:D8
1115	5/15/98	1488	364	RTA00000622F.j.07.1	M00007053B:C7
1116	5/15/98	1488	365	RTA00000619F.k.01.1	M00006801A:G5
1117	5/15/98	1488	366	RTA00000619F.b.24.1	M00006754B:D5
1118	5/15/98	1488	367	RTA00000619F.b.16.1	M00006751A:F3
1119	5/15/98	1488	368	RTA00000618F.p.04.1	M00006738A:E5

SEQ ID NO:	Priority Appln Information Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1120	5/15/98	1488	369	RTA00000615F.k.18.1	M00005342A:D4
1121	5/15/98	1488	370	RTA00000618F.g.23.1	M00006695B:F8
1122	5/15/98	1488	371	RTA00000618F.n.14.1	M00006728D:G10
1123	5/15/98	1488	372	RTA00000619F.e.23.1	M00006765B:H6
1124	5/15/98	1488	373	RTA00000617F.j.06.1	M00005487A:H1
1125	5/15/98	1488	374	RTA00000622F.f.06.1	M00007033A:H5
1126	5/15/98	1488	375	RTA00000622F.e.09.1	M00007030C:F8
1127	5/15/98	1488	376	RTA00000624F.k.11.1	M00005635C:F11
1128	5/15/98	1488	377	RTA00000619F.a.24.1	M00006745A:A1
1129	5/15/98	1488	378	RTA00000625F.i.03.1	M00005818C:G1
1130	5/15/98	1488	379	RTA00000590F.l.10.1	M00005352D:E6
1131	5/15/98	1488	380	RTA00000623F.d.12.1	M00007122B:A11
1132	5/15/98	1488	381	RTA00000622F.o.05.1	M00007090B:A2
1133	5/15/98	1488	382	RTA00000623F.n.07.1	M00007200B:C2
1134	5/15/98	1488	383	RTA00000621F.k.10.1	M00006973C:E11
1135	5/15/98	1488	384	RTA00000616F.b.05.1	M00005377A:A4
1136	5/15/98	1488	385	RTA00000619F.p.11.4	M00006828D:C12
1137	5/15/98	1488	386	RTA00000616F.d.15.1	M00005388D:B11
1138	5/15/98	1488	387	RTA00000615F.b.07.1	M00004839C:B1
1139	5/15/98	1488	388	RTA00000619F.f.19.1	M00006771A:E6
1140	5/15/98	1488	389	RTA00000621F.l.06.1	M00006976C:E9
1141	5/15/98	1488	390	RTA00000624F.m.08.1	M00005646C:B9
1142	5/15/98	1488	391	RTA00000617F.k.13.1	M00005493B:E1
1143	5/15/98	1488	392	RTA00000592F.h.07.1	M00006630B:H6
1144	5/15/98	1488	393	RTA00000619F.f.24.1	M00006771B:F3
1145	5/15/98	1488	394	RTA00000622F.e.20.1	M00007032A:F11
1146	5/15/98	1488	395	RTA00000623F.h.23.1	M00007152A:B4
1147	5/15/98	1488	396	RTA00000626F.b.20.1	M00006635C:B10
1148	5/15/98	1488	397	RTA00000623F.n.03.1	M00007199D:B7
1149	5/15/98	1488	398	RTA00000625F.i.02.1	M00005818C:E8
1150	5/15/98	1488	399	RTA00000622F.i.08.1	M00007047B:D1
1151	5/15/98	1488	400	RTA00000621F.c.23.1	M00006937B:G9
1152	5/15/98	1488	401	RTA00000619F.f.11.1	M00006769D:A4
1153	5/15/98	1488	402	RTA00000621F.b.14.1	M00006934A:G2
1154	5/15/98	1488	403	RTA00000621F.g.10.1	M00006953B:H10
1155	5/15/98	1488	404	RTA00000619F.p.22.3	M00006832A:F5
1156	5/15/98	1488	405	RTA00000590F.p.23.1	M00005399D:B2
1157	5/15/98	1488	406	RTA00000621F.m.23.1	M00006987B:F4
1158	5/15/98	1488	407	RTA00000592F.d.20.1	M00005772A:F3
1159	5/15/98	1488	408	RTA00000624F.m.14.1	M00005647D:D9

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1160	5/15/98	1488	409	RTA00000617F.a.08.1	M00005448D:E8
1161	5/15/98	1488	410	RTA00000620F.i.04.1	M00006877B:E5
1162	5/15/98	1488	411	RTA00000623F.l.12.1	M00007188A:D3
1163	5/15/98	1488	412	RTA00000591F.b.02.1	M00005411D:E5
1164	5/15/98	1488	413	RTA00000623F.h.07.1	M00007146D:G1
1165	5/15/98	1488	414	RTA00000624F.p.21.1	M00005703C:B1
1166	5/15/98	1488	415	RTA00000623F.j.09.2	M00007163A:F11
1167	5/15/98	1488	416	RTA00000623F.l.17.1	M00007189D:A9
1168	5/15/98	1488	417	RTA00000619F.p.18.3	M00006831B:B4
1169	5/15/98	1488	418	RTA00000622F.h.06.1	M00007041B:G1
1170	5/15/98	1488	419	RTA00000591F.m.20.1	M00005519C:F8
1171	5/15/98	1488	420	RTA00000623F.h.10.1	M00007148B:C6
1172	5/15/98	1488	421	RTA00000619F.i.10.1	M00006790D:A5
1173	5/15/98	1488	422	RTA00000625F.b.13.1	M00005711A:H1
1174	5/15/98	1488	423	RTA00000623F.e.16.1	M00007129A:E4
1175	5/15/98	1488	424	RTA00000625F.k.12.1	M00006582D:E5
1176	5/15/98	1488	425	RTA00000624F.i.09.1	M00005626A:B11
1177	5/15/98	1488	426	RTA00000625F.k.09.1	M00006582A:B9
1178	5/15/98	1488	427	RTA00000622F.k.10.1	M00007062A:D3
1179	5/15/98	1488	428	RTA00000616F.h.12.1	M00005403D:E11
1180	5/15/98	1488	429	RTA00000623F.k.07.1	M00007170D:A10
1181	5/15/98	1488	430	RTA00000620F.p.18.1	M00006923B:H8
1182	5/15/98	1488	431	RTA00000620F.e.01.1	M00006855D:H2
1183	5/15/98	1488	432	RTA00000616F.b.10.1	M00005377D:F11
1184	5/15/98	1488	433	RTA00000615F.d.06.1	M00004858D:E6
1185	5/15/98	1488	434	RTA00000592F.h.23.1	M00006640B:H9
1186	5/15/98	1488	435	RTA00000622F.e.07.1	M00007030A:G1
1187	5/15/98	1488	436	RTA00000617F.f.23.2	M00005473D:E10
1188	5/15/98	1488	437	RTA00000620F.h.10.1	M00006875A:A2
1189	5/15/98	1488	438	RTA00000615F.g.19.1	M00005009B:A2
1190	5/15/98	1488	439	RTA00000626F.b.09.1	M00006633C:E11
1191	5/15/98	1488	440	RTA00000626F.e.10.1	M00006644D:C2
1192	5/15/98	1488	441	RTA00000591F.a.08.1	M00005404C:F2
1193	5/15/98	1488	442	RTA00000622F.j.09.1	M00007053B:H3
1194	5/15/98	1488	443	RTA00000591F.n.01.1	M00005524C:B1
1195	5/15/98	1488	444	RTA00000623F.e.12.1	M00007127B:A4
1196	5/15/98	1488	445	RTA00000625F.p.01.1	M00006617B:D9
1197	5/15/98	1488	446	RTA00000623F.f.13.1	M00007134C:F7
1198	5/15/98	1488	447	RTA00000620F.c.24.1	M00006850C:D9
1199	5/15/98	1488	448	RTA00000618F.i.21.1	M00006704D:D3

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1200	5/15/98	1488	449	RTA00000617F.l.08.1	M00005497C:E3
1201	5/15/98	1488	450	RTA00000619F.l.07.1	M00006810D:A5
1202	5/15/98	1488	451	RTA00000624F.n.16.1	M00005655B:C2
1203	5/15/98	1488	452	RTA00000621F.n.24.1	M00006991D:G7
1204	5/15/98	1488	453	RTA00000621F.c.20.1	M00006937B:F7
1205	5/15/98	1488	454	RTA00000623F.g.07.1	M00007140D:C12
1206	5/15/98	1488	455	RTA00000591F.i.17.1	M00005481C:A5
1207	5/15/98	1488	456	RTA00000626F.b.22.1	M00006636A:B8
1208	5/15/98	1488	457	RTA00000620F.i.16.1	M00006882D:F3
1209	5/15/98	1488	458	RTA00000623F.f.21.1	M00007137D:C10
1210	5/15/98	1488	459	RTA00000591F.f.18.1	M00005455A:G3
1211	5/15/98	1488	460	RTA00000616F.e.10.1	M00005392C:C4
1212	5/15/98	1488	461	RTA00000619F.l.22.1	M00006814A:F7
1213	5/15/98	1488	462	RTA00000591F.a.20.1	M00005411A:C7
1214	5/15/98	1488	463	RTA00000623F.b.23.1	M00007112B:C6
1215	5/15/98	1488	464	RTA00000621F.n.15.1	M00006990B:H9
1216	5/15/98	1488	465	RTA00000620F.m.15.1	M00006907D:C7
1217	5/15/98	1488	466	RTA00000591F.a.15.1	M00005406D:B8
1218	5/15/98	1488	467	RTA00000620F.p.05.1	M00006921B:C2
1219	5/15/98	1488	468	RTA00000620F.h.04.1	M00006873B:G11
1220	5/15/98	1488	469	RTA00000592F.g.15.1	M00006615B:F5
1221	5/15/98	1488	470	RTA00000625F.b.21.1	M00005720A:D3
1222	5/15/98	1488	471	RTA00000621F.n.18.1	M00006991A:E7
1223	5/15/98	1488	472	RTA00000591F.h.08.1	M00005470B:E1
1224	5/15/98	1488	473	RTA00000591F.j.13.1	M00005486C:B3
1225	5/15/98	1488	474	RTA00000626F.e.08.1	M00006644C:E9
1226	5/15/98	1488	475	RTA00000623F.d.23.1	M00007124C:A11
1227	5/15/98	1488	476	RTA00000592F.g.04.1	M00006592A:D3
1228	5/15/98	1488	477	RTA00000590F.p.22.1	M00005399B:F2
1229	5/15/98	1488	478	RTA00000590F.n.10.1	M00005377A:D5
1230	5/15/98	1488	479	RTA00000623F.j.16.2	M00007166B:E6
1231	5/15/98	1488	480	RTA00000619F.j.19.1	M00006797B:D12
1232	5/15/98	1488	481	RTA00000621F.c.12.1	M00006936B:F10
1233	5/15/98	1488	482	RTA00000618F.b.17.1	M00006674B:F4
1234	5/15/98	1488	483	RTA00000621F.p.08.1	M00006995D:A3
1235	5/15/98	1488	484	RTA00000626F.b.13.1	M00006634B:C2
1236	5/15/98	1488	485	RTA00000623F.e.18.1	M00007129A:G10
1237	5/15/98	1488	486	RTA00000625F.j.01.1	M00005827B:H8
1238	5/15/98	1488	487	RTA00000625F.o.18.1	M00006616C:H9
1239	5/15/98	1488	488	RTA00000623F.k.13.1	M00007172D:C8

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1240	5/15/98	1488	489	RTA00000623F.k.10.1	M00007172A:A5
1241	5/15/98	1488	490	RTA00000626F.d.12.1	M00006641A:B3
1242	5/15/98	1488	491	RTA00000626F.d.23.1	M00006643A:E10
1243	5/15/98	1488	492	RTA00000623F.j.02.1	M00007160C:B8
1244	5/15/98	1488	493	RTA00000618F.o.07.1	M00006735A:H2
1245	5/15/98	1488	494	RTA00000620F.a.08.1	M00006833B:E11
1246	5/15/98	1488	495	RTA00000623F.d.11.1	M00007122A:G11
1247	5/15/98	1488	496	RTA00000623F.h.16.1	M00007149D:G6
1248	5/15/98	1488	497	RTA00000624F.a.17.1	M00005535B:F6
1249	5/15/98	1488	498	RTA00000621F.n.17.1	M00006990D:D6
1250	5/15/98	1488	499	RTA00000625F.n.02.1	M00006601C:E6
1251	5/15/98	1488	500	RTA00000591F.n.05.1	M00005530B:E4
1252	5/15/98	1488	501	RTA00000622F.n.09.1	M00007084B:A5
1253	5/15/98	1488	502	RTA00000617F.l.05.1	M00005497C:C10
1254	5/15/98	1488	503	RTA00000623F.j.08.2	M00007163A:B10
1255	5/15/98	1488	504	RTA00000626F.g.02.1	M00006656C:C10
1256	5/15/98	1488	505	RTA00000617F.l.06.1	M00005497C:C12
1257	5/15/98	1488	506	RTA00000592F.a.06.1	M00005635B:A6
1258	5/15/98	1488	507	RTA00000591F.j.11.1	M00005485C:A3
1259	5/15/98	1488	508	RTA00000622F.h.21.1	M00007046A:D2
1260	5/15/98	1488	509	RTA00000591F.h.03.1	M00005468D:F4
1261	5/15/98	1488	510	RTA00000620F.g.22.1	M00006872B:G1
1262	5/15/98	1488	511	RTA00000617F.c.05.1	M00005456B:E3
1263	5/15/98	1488	512	RTA00000616F.e.15.3	M00005393A:E11
1264	5/15/98	1488	513	RTA00000616F.f.15.3	M00005396B:C4
1265	5/15/98	1488	514	RTA00000622F.c.11.1	M00007014D:C5
1266	5/15/98	1488	515	RTA00000621F.f.12.1	M00006949B:F3
1267	5/15/98	1488	516	RTA00000603F.c.23.1	M00006720C:C11
1268	5/15/98	1488	517	RTA00000640F.a.23.1	M00005817D:E12
1269	5/15/98	1488	518	RTA00000618F.h.15.1	M00006699B:C7
1270	5/15/98	1488	519	RTA00000616F.p.22.1	M00005446C:D12
1271	5/15/98	1488	520	RTA00000621F.p.18.1	M00006997D:B3
1272	5/15/98	1488	521	RTA00000615F.b.10.1	M00004840C:H5
1273	5/15/98	1488	522	RTA00000590F.l.05.1	M00005332A:H10
1274	5/15/98	1488	523	RTA00000619F.g.06.1	M00006774D:C1
1275	5/15/98	1488	524	RTA00000619F.c.24.1	M00006757D:E4
1276	5/15/98	1488	525	RTA00000619F.f.23.1	M00006771B:A9
1277	5/15/98	1489	1	RTA00000639F.e.11.1	M00023011A:A6
1278	5/15/98	1489	2	RTA00000631F.e.20.1	M00022386B:D11
1279	5/15/98	1489	3	RTA00000631F.e.15.1	M00022386A:A7

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1280	5/15/98	1489	4	RTA00000639F.d.02.1	M00022993A:F2
1281	5/15/98	1489	5	RTA00000639F.f.10.1	M00023021A:H8
1282	5/15/98	1489	6	RTA00000628F.e.17.1	M00021862D:F1
1283	5/15/98	1489	7	RTA00000627F.p.18.1	M00021670B:G11
1284	5/15/98	1489	8	RTA00000633F.o.22.1	M00022901D:C9
1285	5/15/98	1489	9	RTA00000632F.b.04.1	M00022493C:B7
1286	5/15/98	1489	10	RTA00000639F.g.14.1	M00023034C:E5
1287	5/15/98	1489	11	RTA00000631F.p.10.1	M00022474A:H9
1288	5/15/98	1489	12	RTA00000628F.c.20.1	M00021828A:C8
1289	5/15/98	1489	13	RTA00000630F.o.20.1	M00022289A:D5
1290	5/15/98	1489	14	RTA00000630F.e.18.1	M00022202C:F11
1291	5/15/98	1489	15	RTA00000628F.b.18.1	M00021690C:B7
1292	5/15/98	1489	16	RTA00000590F.j.07.1	M00004873C:C10
1293	5/15/98	1489	17	RTA00000630F.a.19.1	M00022169D:C2
1294	5/15/98	1489	18	RTA00000630F.i.02.1	M00022226D:A7
1295	5/15/98	1489	19	RTA00000631F.a.22.1	M00022364C:G12
1296	5/15/98	1489	20	RTA00000630F.l.19.1	M00022255D:E3
1297	5/15/98	1489	21	RTA00000633F.a.15.1	M00022661D:H1
1298	5/15/98	1489	22	RTA00000639F.c.06.1	M00022972D:C10
1299	5/15/98	1489	23	RTA00000630F.p.23.1	M00022305C:A1
1300	5/15/98	1489	24	RTA00000629F.o.19.2	M00022150D:D11
1301	5/15/98	1489	25	RTA00000632F.j.18.1	M00022599D:E7
1302	5/15/98	1489	26	RTA00000630F.o.21.1	M00022289D:B6
1303	5/15/98	1489	27	RTA00000629F.l.02.1	M00022117C:G7
1304	5/15/98	1489	28	RTA00000628F.e.13.1	M00021861C:A2
1305	5/15/98	1489	29	RTA00000632F.j.02.1	M00022587C:G4
1306	5/15/98	1489	30	RTA00000639F.e.01.1	M00023003C:A3
1307	5/15/98	1489	31	RTA00000631F.f.01.1	M00022386C:D7
1308	5/15/98	1489	32	RTA00000630F.p.22.1	M00022305A:H11
1309	5/15/98	1489	33	RTA00000628F.l.05.1	M00021946D:C11
1310	5/15/98	1489	34	RTA00000629F.b.06.1	M00022049A:A2
1311	5/15/98	1489	35	RTA00000628F.g.20.1	M00021892B:H3
1312	5/15/98	1489	36	RTA00000628F.n.11.1	M00021982C:F8
1313	5/15/98	1489	37	RTA00000593F.e.21.1	M00022074D:F11
1314	5/15/98	1489	38	RTA00000633F.c.07.1	M00022674D:G4
1315	5/15/98	1489	39	RTA00000629F.k.17.1	M00022110A:E4
1316	5/15/98	1489	40	RTA00000633F.a.11.1	M00022661B:E11
1317	5/15/98	1489	41	RTA00000629F.e.16.1	M00022068D:D12
1318	5/15/98	1489	42	RTA00000631F.c.01.1	M00022372B:D3
1319	5/15/98	1489	43	RTA00000630F.n.22.1	M00022278C:E3

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1320	5/15/98	1489	44	RTA00000628F.j.14.1	M00021927B:F1
1321	5/15/98	1489	45	RTA00000631F.l.14.1	M00022449D:F6
1322	5/15/98	1489	46	RTA00000631F.j.06.1	M00022423B:D3
1323	5/15/98	1489	47	RTA00000630F.b.17.1	M00022175A:A11
1324	5/15/98	1489	48	RTA00000593F.i.08.2	M00022218C:B6
1325	5/15/98	1489	49	RTA00000631F.l.12.1	M00022449C:B1
1326	5/15/98	1489	50	RTA00000628F.m.20.1	M00021978A:F8
1327	5/15/98	1489	51	RTA00000632F.c.02.1	M00022504B:E3
1328	5/15/98	1489	52	RTA00000632F.h.03.1	M00022565C:H2
1329	5/15/98	1489	53	RTA00000592F.l.16.1	M00007977C:E8
1330	5/15/98	1489	54	RTA00000630F.c.01.1	M00022176A:E8
1331	5/15/98	1489	55	RTA00000593F.e.19.1	M00022071C:D9
1332	5/15/98	1489	56	RTA00000632F.a.10.1	M00022490C:C1
1333	5/15/98	1489	57	RTA00000632F.f.12.1	M00022536B:B4
1334	5/15/98	1489	58	RTA00000630F.m.06.1	M00022259B:G2
1335	5/15/98	1489	59	RTA00000629F.e.07.1	M00022067D:C5
1336	5/15/98	1489	60	RTA00000627F.k.19.1	M00021618D:D7
1337	5/15/98	1489	61	RTA00000629F.o.15.2	M00022149B:D5
1338	5/15/98	1489	62	RTA00000592F.o.02.1	M00008015D:E9
1339	5/15/98	1489	63	RTA00000628F.h.18.1	M00021906C:G11
1340	5/15/98	1489	64	RTA00000632F.h.23.1	M00022578D:A8
1341	5/15/98	1489	65	RTA00000639F.h.18.1	M00023103A:E11
1342	5/15/98	1489	66	RTA00000630F.p.11.1	M00022296B:C11
1343	5/15/98	1489	67	RTA00000632F.o.18.1	M00022651D:C6
1344	5/15/98	1489	68	RTA00000629F.a.24.1	M00022032A:E7
1345	5/15/98	1489	69	RTA00000633F.f.19.1	M00022708D:G10
1346	5/15/98	1489	70	RTA00000627F.n.04.1	M00021640A:G3
1347	5/15/98	1489	71	RTA00000630F.p.04.1	M00022294A:D11
1348	5/15/98	1489	72	RTA00000633F.h.21.1	M00022730A:E4
1349	5/15/98	1489	73	RTA00000632F.d.12.1	M00022515D:C4
1350	5/15/98	1489	74	RTA00000627F.o.23.1	M00021660C:G4
1351	5/15/98	1489	75	RTA00000628F.j.12.1	M00021927A:C11
1352	5/15/98	1489	76	RTA00000632F.f.03.1	M00022531B:D7
1353	5/15/98	1489	77	RTA00000593F.o.03.1	M00022549B:G7
1354	5/15/98	1489	78	RTA00000631F.b.06.1	M00022366B:E9
1355	5/15/98	1489	79	RTA00000633F.g.15.1	M00022716D:D8
1356	5/15/98	1489	80	RTA00000594F.b.04.1	M00022828C:E4
1357	5/15/98	1489	81	RTA00000623F.o.14.1	M00007929B:H10
1358	5/15/98	1489	82	RTA00000632F.g.02.1	M00022551A:G3
1359	5/15/98	1489	83	RTA00000629F.h.11.1	M00022084B:F4

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1360	5/15/98	1489	84	RTA00000632F.b.17.1	M00022498C:C8
1361	5/15/98	1489	85	RTA00000631F.m.04.1	M00022452C:B3
1362	5/15/98	1489	86	RTA00000627F.k.02.1	M00021614B:G12
1363	5/15/98	1489	87	RTA00000631F.n.06.1	M00022457C:B1
1364	5/15/98	1489	88	RTA00000633F.i.15.1	M00022737A:C8
1365	5/15/98	1489	89	RTA00000639F.f.11.1	M00023023A:B12
1366	5/15/98	1489	90	RTA00000630F.j.04.1	M00022236D:A3
1367	5/15/98	1489	91	RTA00000630F.j.14.1	M00022239D:A7
1368	5/15/98	1489	92	RTA00000627F.k.24.1	M00021619B:G10
1369	5/15/98	1489	93	RTA00000630F.j.13.1	M00022239B:B7
1370	5/15/98	1489	94	RTA00000629F.j.07.1	M00022094B:G10
1371	5/15/98	1489	95	RTA00000628F.m.02.1	M00021964A:C4
1372	5/15/98	1489	96	RTA00000639F.g.08.1	M00023033A:E10
1373	5/15/98	1489	97	RTA00000628F.i.05.1	M00021910A:C10
1374	5/15/98	1489	98	RTA00000639F.a.16.1	M00022953B:C7
1375	5/15/98	1489	99	RTA00000633F.c.21.1	M00022682A:F12
1376	5/15/98	1489	100	RTA00000639F.b.03.1	M00022960D:E8
1377	5/15/98	1489	101	RTA00000633F.b.05.1	M00022666C:H11
1378	5/15/98	1489	102	RTA00000631F.h.05.2	M00022412A:C8
1379	5/15/98	1489	103	RTA00000628F.h.14.1	M00021905B:A1
1380	5/15/98	1489	104	RTA00000633F.b.03.1	M00022666B:E12
1381	5/15/98	1489	105	RTA00000632F.g.08.1	M00022556B:G2
1382	5/15/98	1489	106	RTA00000593F.g.18.1	M00022171D:B8
1383	5/15/98	1489	107	RTA00000592F.p.10.1	M00008061A:F2
1384	5/15/98	1489	108	RTA00000639F.f.19.1	M00023028A:A2
1385	5/15/98	1489	109	RTA00000630F.f.04.1	M00022206B:G6
1386	5/15/98	1489	110	RTA00000633F.o.02.1	M00022893C:H11
1387	5/15/98	1489	111	RTA00000632F.b.12.1	M00022495C:G5
1388	5/15/98	1489	112	RTA00000632F.g.20.1	M00022562C:H10
1389	5/15/98	1489	113	RTA00000593F.f.12.1	M00022109B:A11
1390	5/15/98	1489	114	RTA00000633F.c.19.1	M00022681C:H2
1391	5/15/98	1489	115	RTA00000629F.e.12.1	M00022068B:H11
1392	5/15/98	1489	116	RTA00000629F.j.01.1	M00022093A:A5
1393	5/15/98	1489	117	RTA00000627F.m.07.1	M00021625A:C7
1394	5/15/98	1489	118	RTA00000633F.n.12.1	M00022856C:B11
1395	5/15/98	1489	119	RTA00000632F.e.15.1	M00022527D:B3
1396	5/15/98	1489	120	RTA00000632F.a.09.1	M00022490C:A8
1397	5/15/98	1489	121	RTA00000631F.k.12.1	M00022439A:E7
1398	5/15/98	1489	122	RTA00000628F.c.02.1	M00021694B:A7
1399	5/15/98	1489	123	RTA00000632F.f.10.1	M00022535D:B11

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1400	5/15/98	1489	124	RTA00000631F.f.11.1	M00022389B:H4
1401	5/15/98	1489	125	RTA00000633F.n.06.1	M00022854D:H7
1402	5/15/98	1489	126	RTA00000628F.l.14.1	M00021954A:A3
1403	5/15/98	1489	127	RTA00000632F.k.10.1	M00022607B:A4
1404	5/15/98	1489	128	RTA00000629F.b.08.1	M00022049A:D6
1405	5/15/98	1489	129	RTA00000629F.l.10.1	M00022122D:D6
1406	5/15/98	1489	130	RTA00000632F.c.04.1	M00022505D:A12
1407	5/15/98	1489	131	RTA00000630F.h.22.1	M00022221D:E8
1408	5/15/98	1489	132	RTA00000593F.e.18.1	M00022070B:C10
1409	5/15/98	1489	133	RTA00000630F.l.02.1	M00022252C:E6
1410	5/15/98	1489	134	RTA00000632F.k.20.1	M00022613D:C4
1411	5/15/98	1489	135	RTA00000628F.p.01.1	M00022005C:G3
1412	5/15/98	1489	136	RTA00000631F.l.01.1	M00022444A:A11
1413	5/15/98	1489	137	RTA00000628F.a.16.1	M00021678A:B8
1414	5/15/98	1489	138	RTA00000632F.j.14.1	M00022598A:F11
1415	5/15/98	1489	139	RTA00000628F.e.06.1	M00021859A:D4
1416	5/15/98	1489	140	RTA00000631F.n.08.1	M00022458B:E6
1417	5/15/98	1489	141	RTA00000630F.g.18.1	M00022216D:C1
1418	5/15/98	1489	142	RTA00000628F.m.08.1	M00021967D:E8
1419	5/15/98	1489	143	RTA00000592F.k.12.1	M00007961A:B1
1420	5/15/98	1489	144	RTA00000631F.e.22.1	M00022386C:A4
1421	5/15/98	1489	145	RTA00000628F.b.21.1	M00021692A:E3
1422	5/15/98	1489	146	RTA00000631F.d.13.1	M00022381C:C12
1423	5/15/98	1489	147	RTA00000629F.p.04.2	M00022153D:D11
1424	5/15/98	1489	148	RTA00000628F.b.01.1	M00021680B:C1
1425	5/15/98	1489	149	RTA00000630F.c.19.1	M00022183A:G3
1426	5/15/98	1489	150	RTA00000593F.l.06.1	M00022404D:G5
1427	5/15/98	1489	151	RTA00000628F.c.11.1	M00021698B:B12
1428	5/15/98	1489	152	RTA00000630F.l.05.1	M00022253B:E6
1429	5/15/98	1489	153	RTA00000628F.b.22.1	M00021692C:E6
1430	5/15/98	1489	154	RTA00000633F.g.19.1	M00022718D:G5
1431	5/15/98	1489	155	RTA00000629F.p.10.2	M00022157B:A10
1432	5/15/98	1489	156	RTA00000628F.b.17.1	M00021690B:B6
1433	5/15/98	1489	157	RTA00000627F.j.18.1	M00021611D:H3
1434	5/15/98	1489	158	RTA00000627F.p.10.1	M00021665A:D4
1435	5/15/98	1489	159	RTA00000628F.e.15.1	M00021862A:A4
1436	5/15/98	1489	160	RTA00000630F.h.12.1	M00022218D:B12
1437	5/15/98	1489	161	RTA00000628F.i.08.1	M00021912B:H11
1438	5/15/98	1489	162	RTA00000630F.c.09.1	M00022178D:H1
1439	5/15/98	1489	163	RTA00000633F.o.08.1	M00022897A:F4

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1440	5/15/98	1489	164	RTA00000628F.l.07.1	M00021947A:C1
1441	5/15/98	1489	165	RTA00000628F.n.18.1	M00021983D:B10
1442	5/15/98	1489	166	RTA00000630F.l.10.1	M00022254C:D8
1443	5/15/98	1489	167	RTA00000632F.i.01.1	M00022578D:F3
1444	5/15/98	1489	168	RTA00000629F.j.04.1	M00022093D:B10
1445	5/15/98	1489	169	RTA00000627F.j.16.1	M00021611D:D5
1446	5/15/98	1489	170	RTA00000629F.e.20.1	M00022069D:G2
1447	5/15/98	1489	171	RTA00000632F.h.21.1	M00022578C:B7
1448	5/15/98	1489	172	RTA00000629F.p.09.2	M00022157A:F12
1449	5/15/98	1489	173	RTA00000631F.d.22.1	M00022382D:H11
1450	5/15/98	1489	174	RTA00000630F.l.14.1	M00022255A:C8
1451	5/15/98	1489	175	RTA00000633F.h.12.1	M00022725C:E9
1452	5/15/98	1489	176	RTA00000630F.i.11.1	M00022231C:A4
1453	5/15/98	1489	177	RTA00000632F.a.05.1	M00022489C:A8
1454	5/15/98	1489	178	RTA00000629F.g.21.1	M00022081C:G11
1455	5/15/98	1489	179	RTA00000632F.e.12.1	M00022527A:E5
1456	5/15/98	1489	180	RTA00000632F.g.11.1	M00022557B:A8
1457	5/15/98	1489	181	RTA00000629F.f.22.1	M00022075D:F5
1458	5/15/98	1489	182	RTA00000630F.j.12.1	M00022239A:A10
1459	5/15/98	1489	183	RTA00000629F.h.16.1	M00022085C:C4
1460	5/15/98	1489	184	RTA00000633F.j.13.1	M00022745A:B4
1461	5/15/98	1489	185	RTA00000633F.h.10.1	M00022725C:B3
1462	5/15/98	1489	186	RTA00000632F.b.05.1	M00022493C:C6
1463	5/15/98	1489	187	RTA00000633F.h.18.1	M00022727B:C5
1464	5/15/98	1489	188	RTA00000633F.h.13.1	M00022726A:A6
1465	5/15/98	1489	189	RTA00000630F.i.09.1	M00022231A:F12
1466	5/15/98	1489	190	RTA00000593F.h.03.1	M00022176C:A8
1467	5/15/98	1489	191	RTA00000632F.c.18.1	M00022509D:F6
1468	5/15/98	1489	192	RTA00000593F.f.03.1	M00022081C:B11
1469	5/15/98	1489	193	RTA00000627F.n.21.1	M00021653A:G7
1470	5/15/98	1489	194	RTA00000631F.g.18.2	M00022407C:H11
1471	5/15/98	1489	195	RTA00000639F.c.14.1	M00022980B:E11
1472	5/15/98	1489	196	RTA00000633F.m.08.1	M00022824C:H11
1473	5/15/98	1489	197	RTA00000627F.m.10.1	M00021629D:D5
1474	5/15/98	1489	198	RTA00000632F.h.20.1	M00022578B:G5
1475	5/15/98	1489	199	RTA00000627F.o.09.1	M00021657B:C8
1476	5/15/98	1489	200	RTA00000632F.j.06.1	M00022594B:H12
1477	5/15/98	1489	201	RTA00000632F.d.07.1	M00022514A:D4
1478	5/15/98	1489	202	RTA00000629F.d.23.1	M00022064C:H7
1479	5/15/98	1489	203	RTA00000629F.m.05.1	M00022128A:D4

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1480	5/15/98	1489	204	RTA00000639F.b.08.1	M00022963A:D11
1481	5/15/98	1489	205	RTA00000627F.l.21.1	M00021624A:D7
1482	5/15/98	1489	206	RTA00000628F.j.16.1	M00021927D:D12
1483	5/15/98	1489	207	RTA00000628F.b.08.1	M00021681C:B10
1484	5/15/98	1489	208	RTA00000630F.e.10.1	M00022199C:F3
1485	5/15/98	1489	209	RTA00000639F.b.21.1	M00022968A:F2
1486	5/15/98	1489	210	RTA00000631F.h.04.1	M00022411D:G9
1487	5/15/98	1489	211	RTA00000639F.c.15.1	M00022980C:A9
1488	5/15/98	1489	212	RTA00000631F.d.11.1	M00022381A:F5
1489	5/15/98	1489	213	RTA00000633F.e.18.1	M00022698C:E6
1490	5/15/98	1489	214	RTA00000615F.e.19.1	M00004875A:G9
1491	5/15/98	1489	215	RTA00000629F.n.11.2	M00022139A:C1
1492	5/15/98	1489	216	RTA00000631F.g.11.2	M00022404B:H5
1493	5/15/98	1489	217	RTA00000630F.o.18.1	M00022288C:D4
1494	5/15/98	1489	218	RTA00000633F.h.22.1	M00022730D:E10
1495	5/15/98	1489	219	RTA00000633F.e.24.1	M00022701B:B12
1496	5/15/98	1489	220	RTA00000633F.o.19.1	M00022900D:E8
1497	5/15/98	1489	221	RTA00000630F.e.04.1	M00022198A:C12
1498	5/15/98	1489	222	RTA00000627F.o.01.1	M00021654C:A2
1499	5/15/98	1489	223	RTA00000629F.k.21.1	M00022114C:B2
1500	5/15/98	1489	224	RTA00000631F.g.04.1	M00022399C:A10
1501	5/15/98	1489	225	RTA00000630F.m.03.1	M00022258C:F6
1502	5/15/98	1489	226	RTA00000629F.i.08.1	M00022090A:G8
1503	5/15/98	1489	227	RTA00000593F.d.02.2	M00021682B:D12
1504	5/15/98	1489	228	RTA00000631F.a.24.1	M00022365A:A1
1505	5/15/98	1489	229	RTA00000629F.p.06.2	M00022154A:C1
1506	5/15/98	1489	230	RTA00000633F.n.09.1	M00022856B:D7
1507	5/15/98	1489	231	RTA00000633F.f.14.1	M00022708A:C8
1508	5/15/98	1489	232	RTA00000629F.k.11.1	M00022106C:F4
1509	5/15/98	1489	233	RTA00000630F.b.02.1	M00022170D:H9
1510	5/15/98	1489	234	RTA00000633F.p.04.1	M00022902D:D3
1511	5/15/98	1489	235	RTA00000633F.n.08.1	M00022856A:D2
1512	5/15/98	1489	236	RTA00000628F.h.06.1	M00021897B:A6
1513	5/15/98	1489	237	RTA00000628F.d.05.1	M00021841C:D7
1514	5/15/98	1489	238	RTA00000627F.l.22.1	M00021624B:A3
1515	5/15/98	1489	239	RTA00000630F.f.19.1	M00022212C:C2
1516	5/15/98	1489	240	RTA00000630F.h.17.1	M00022220C:F8
1517	5/15/98	1489	241	RTA00000632F.i.15.1	M00022583B:E5
1518	5/15/98	1489	242	RTA00000633F.j.15.1	M00022745B:G2
1519	5/15/98	1489	243	RTA00000628F.k.05.1	M00021932C:G10

SEQ ID NO:	Priority Appln Information Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1520	5/15/98	1489	244	RTA00000633F.d.04.1	M00022685A:F11
1521	5/15/98	1489	245	RTA00000639F.h.10.1	M00023094A:C4
1522	5/15/98	1489	246	RTA00000632F.f.11.1	M00022535D:C4
1523	5/15/98	1489	247	RTA00000631F.p.20.1	M00022480B:E7
1524	5/15/98	1489	248	RTA00000629F.o.17.2	M00022150A:H6
1525	5/15/98	1489	249	RTA00000592F.l.23.1	M00007986C:C5
1526	5/15/98	1489	250	RTA00000630F.d.10.1	M00022189A:A1
1527	5/15/98	1489	251	RTA00000632F.j.19.1	M00022600C:A6
1528	5/15/98	1489	252	RTA00000633F.n.10.1	M00022856B:F4
1529	5/15/98	1489	253	RTA00000628F.h.13.1	M00021905A:G5
1530	5/15/98	1489	254	RTA00000633F.k.05.1	M00022763A:E10
1531	5/15/98	1489	255	RTA00000633F.i.11.1	M00022735B:B1
1532	5/15/98	1489	256	RTA00000633F.o.20.1	M00022900D:G3
1533	5/15/98	1489	257	RTA00000628F.b.19.1	M00021690D:E5
1534	5/15/98	1489	258	RTA00000627F.p.14.1	M00021667D:E3
1535	5/15/98	1489	259	RTA00000628F.n.15.1	M00021983B:B3
1536	5/15/98	1489	260	RTA00000592F.p.22.1	M00008074D:C1
1537	5/15/98	1489	261	RTA00000628F.m.19.1	M00021977D:E2
1538	5/15/98	1489	262	RTA00000593F.a.05.1	M00008078C:C6
1539	5/15/98	1489	263	RTA00000639F.g.17.1	M00023036D:C4
1540	5/15/98	1489	264	RTA00000632F.j.15.1	M00022599A:C3
1541	5/15/98	1489	265	RTA00000592F.l.04.1	M00007971A:B4
1542	5/15/98	1489	266	RTA00000629F.c.07.1	M00022054D:C5
1543	5/15/98	1489	267	RTA00000592F.l.21.1	M00007985A:B9
1544	5/15/98	1489	268	RTA00000629F.h.15.1	M00022085C:A7
1545	5/15/98	1489	269	RTA00000633F.n.02.1	M00022835C:E6
1546	5/15/98	1489	270	RTA00000630F.n.24.1	M00022278D:F10
1547	5/15/98	1489	271	RTA00000592F.k.09.1	M00007953B:B3
1548	5/15/98	1489	272	RTA00000592F.l.10.1	M00007974B:C11
1549	5/15/98	1489	273	RTA00000628F.k.04.1	M00021932C:C5
1550	5/15/98	1489	274	RTA00000630F.h.24.1	M00022226C:B6
1551	5/15/98	1489	275	RTA00000629F.i.13.1	M00022091B:B7
1552	5/15/98	1489	276	RTA00000630F.b.01.1	M00022170D:H7
1553	5/15/98	1489	277	RTA00000628F.g.13.1	M00021886D:E4
1554	5/15/98	1489	278	RTA00000592F.m.13.1	M00007995D:E6
1555	5/15/98	1489	279	RTA00000633F.h.20.1	M00022728A:A9
1556	5/15/98	1489	280	RTA00000593F.d.08.2	M00021860B:G6
1557	5/15/98	1489	281	RTA00000629F.f.01.1	M00022071B:D5
1558	5/15/98	1489	282	RTA00000632F.i.11.1	M00022582C:E12
1559	5/15/98	1489	283	RTA00000632F.j.24.1	M00022604B:C11

	Priority Appln Information				
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1560	5/15/98	1489	284	RTA00000629F.f.03.1	M00022071C:C9
1561	5/15/98	1489	285	RTA00000593F.b.04.1	M00008094A:E10
1562	5/15/98	1489	286	RTA00000628F.l.12.1	M00021952B:F11
1563	5/15/98	1489	287	RTA00000632F.j.12.1	M00022597B:F11
1564	5/15/98	1489	288	RTA00000592F.k.23.1	M00007964B:D10
1565	5/15/98	1489	289	RTA00000632F.g.07.1	M00022556B:C4

Table 1B

SEQ ID NO:	Sample Name	Overlap	Clone Name
1566	803.F11.sp6:165002	VO	M00004236D:E07
1567	180.B11.sp6:135937	VO	M00001453B:F08
1568	1033.D01.sp6:188349	VO	M00001455A:E09
1569	1164.H10.sp6:186952	VO	M00001455A:E09
1570	80.E12.sp6:130267	VNO	
1571	121.C2.sp6:131906	VNO	
1572	1035.D01.sp6:188733	VO	M00003939A:A02
1573	1034.G03.sp6:188579	VNO	
1574	020.C1.sp6:128615	VO	M00003820C:A09
1575	019.B1.sp6:128411	VO	M00003820C:A09
1576	803.F4.sp6:164995	VO	M00004052C:B05
1577	1033.C06.sp6:188342	VO	M00001654D:F06
1578	1035.H07.sp6:188787	VO	M00004034C:F05
1579	396.C9.sp6:149508	VO	M00004034C:F05
1580	396.D9.sp6:149520	VO	M00004035B:F05
1581	1035.B08.sp6:188716	VO	M00004035B:F05
1582	396.H9.sp6:149568	VNO	
1583	1035.D09.sp6:188741	VO	M00004037C:D07
1584	1036.B05.sp6:188905	VO	M00004115C:H04
1585	404.G2.sp6:162929	VNO	
1586	1035.D07.sp6:188739	VO	M00004031D:G02
1587	1034.A05.sp6:188509	VO	M00003829A:B08
1588	395.B5.sp6:149300	VO	M00003829A:B08
1589	1034.F07.sp6:188571	VO	M00003852D:D03
1590	1035.E04.sp6:188748	VO	M00003982A:G03
1591	396.F3.sp6:149538	VO	M00003982A:G03
1592	396.H3.sp6:149562	VO	M00003982B:C10
1593	1035.F04.sp6:188760	VNO	
1594	396.D4.sp6:149515	VO	M00003983A:D02
1595	1035.G04.sp6:188772	VO	M00003983A:D02
1596	396.D5.sp6:149516	VO	M00003985A:C01
1597	1035.B05.sp6:188713	VO	M00003985A:C01
1598	1035.C06.sp6:188726	VO	M00004028C:D01
1599	396.A7.sp6:149482	VNO	
1600	1035.E06.sp6:188750	VO	M00004029C:B03
1601	801.E1.sp6:164692	VO	M00001344D:G11
1602	801.F1.sp6:164704	VO	M00001345A:A12
1603	801.A2.sp6:164645	VNO	
1604	801.B2.sp6:164657	VNO	
1605	801.C2.sp6:164669	VO	M00001347A:G06
1606	801.D2.sp6:164681	VO	M00001347B:H01
1607	801.E2.sp6:164693	VNO	

SEQ ID NO:	Sample Name	Overlap	Clone Name
1608	801.F2.sp6:164705	VNO	
1609	801.A3.sp6:164646	VO	M00001355B:A01
1610	801.B3.sp6:164658	VO	M00001358D:D09
1611	801.C3.sp6:164670	VO	M00001359A:B07
1612	801.D3.sp6:164682	VO	M00001362A:C10
1613	801.E3.sp6:164694	VO	M00001362B:A09
1614	801.G3.sp6:164718	VO	M00001365D:D12
1615	801.H3.sp6:164730	VO	M00001365D:H09
1616	801.A4.sp6:164647	VNO	
1617	801.B4.sp6:164659	VO	M00001370A:G09
1618	801.C4.sp6:164671	VO	M00001370B:B04
1619	801.D4.sp6:164683	VO	M00001370B:B12
1620	801.E4.sp6:164695	VNO	
1621	801.G4.sp6:164719	VO	M00001374D:D09
1622	801.D5.sp6:164684	VO	M00001377C:B08
1623	801.F5.sp6:164708	VNO	
1624	801.G5.sp6:164720	VNO	
1625	801.H5.sp6:164732	VNO	
1626	801.A6.sp6:164649	VO	M00001384A:C09
1627	801.B6.sp6:164661	VO	M00001387A:A04
1628	801.D6.sp6:164685	VO	M00001389B:B06
1629	801.E6.sp6:164697	VO	M00001390A:C06
1630	801.F6.sp6:164709	VO	M00001390A:H01
1631	801.D7.sp6:164686	VNO	
1632	801.E7.sp6:164698	VO	M00001399C:E10
1633	1033.A01.sp6:188313	VO	M00001399D:F09
1634	801.G7.sp6:164722	VNO	
1635	801.H7.sp6:164734	VO	M00001401D:D04
1636	801.A8.sp6:164651	VNO	
1637	801.B8.sp6:164663	VO	M00001402D:C07
1638	801.C8.sp6:164675	VO	M00001402D:H03
1639	801.D8.sp6:164687	VO	M00001403B:A01
1640	801.E8.sp6:164699	VO	M00001405D:F05
1641	801.G8.sp6:164723	VO	M00001406C:A11
1642	801.B9.sp6:164664	VO	M00001407B:A08
1643	801.C9.sp6:164676	VO	M00001407D:H11
1644	801.D9.sp6:164688	VNO	
1645	801.E9.sp6:164700	VNO	
1646	801.F9.sp6:164712	VO	M00001411A:D01
1647	801.G9.sp6:164724	VNO	
1648	801.H9.sp6:164736	VO	M00001411C:G02
1649	801.B10.sp6:164665	VO	M00001412A:A11
1650	801.C10.sp6:164677	VNO	

SEQ ID NO:	Sample Name	Overlap	Clone Name
1651	801.D10.sp6:164689	VNO	
1652	801.E10.sp6:164701	VO	M00001415D:E12
1653	801.F10.sp6:164713	VNO	
1654	801.G10.sp6:164725	VO	M00001417B:E01
1655	020.A6.sp6:128596	VO	M00001417B:E01
1656	801.H10.sp6:164737	VNO	
1657	801.A11.sp6:164654	VO	M00001417C:E02
1658	801.B11.sp6:164666	VNO	
1659	801.C11.sp6:164678	VO	M00001421A:H07
1660	801.F11.sp6:164714	VO	M00001423C:D06
1661	801.G11.sp6:164726	VO	M00001424A:H09
1662	801.H11.sp6:164738	VO	M00001425C:E10
1663	801.B12.sp6:164667	VO	M00001426A:F09
1664	801.C12.sp6:164679	VO	M00001426D:D09
1665	801.E12.sp6:164703	VO	M00001431A:C10
1666	801.F12.sp6:164715	VO	M00001431A:E05
1667	801.G12.sp6:164727	VO	M00001432A:F12
1668	801.H12.sp6:164739	VO	M00001432B:H08
1669	802.A1.sp6:164740	VO	M00001432C:G01
1670	802.B1.sp6:164752	VO	M00001433A:C07
1671	802.C1.sp6:164764	VNO	
1672	802.D1.sp6:164776	VO	M00001434A:A01
1673	802.E1.sp6:164788	VNO	
1674	802.F1.sp6:164800	VO	M00001435A:F03
1675	802.G1.sp6:164812	VO	M00001435A:G01
1676	802.H1.sp6:164824	VO	M00001435B:G10
1677	802.A2.sp6:164741	VO	M00001435C:G08
1678	802.B2.sp6:164753	VNO	
1679	802.C2.sp6:164765	VO	M00001435D:A06
1680	802.D2.sp6:164777	VO	M00001436D:C10
1681	802.E2.sp6:164789	VO	M00001437B:B05
1682	802.G2.sp6:164813	VNO	
1683	802.H2.sp6:164825	VO	M00001438C:H05
1684	802.A3.sp6:164742	VNO	
1685	802.B3.sp6:164754	VO	M00001439B:F10
1686	802.C3.sp6:164766	VO	M00001439C:A01
1687	802.D3.sp6:164778	VO	M00001439C:G06
1688	802.E3.sp6:164790	VO	M00001441D:H05
1689	802.F3.sp6:164802	VO	M00001442A:D08
1690	802.G3.sp6:164814	VNO	
1691	802.H3.sp6:164826	VO	M00001443D:A01
1692	802.A4.sp6:164743	VNO	
1693	802.B4.sp6:164755	VO	M00001444A:A09

SEQ ID NO:	Sample Name	Overlap	Clone Name
1694	802.C4.sp6:164767	VNO	
1695	802.D4.sp6:164779	VNO	
1696	802.E4.sp6:164791	VO	M00001446D:B10
1697	1033.B01.sp6:188325	VO	M00001448A:D05
1698	802.F4.sp6:164803	VO	M00001451B:H11
1699	802.G4.sp6:164815	VNO	
1700	802.H4.sp6:164827	VO	M00001452B:H06
1701	802.A5.sp6:164744	VO	M00001452D:E05
1702	802.C5.sp6:164768	VO	M00001453D:F09
1703	1033.C01.sp6:188337	VO	M00001455A:C03
1704	1033.E01.sp6:188361	VO	M00001456C:F02
1705	1033.F01.sp6:188373	VO	M00001458B:F06
1706	802.D5.sp6:164780	VO	M00001463C:A01
1707	802.E5.sp6:164792	VO	M00001466C:F02
1708	802.F5.sp6:164804	VNO	
1709	802.G5.sp6:164816	VO	M00001471C:G03
1710	1033.G01.sp6:188385	VO	M00001478A:B06
1711	1033.H01.sp6:188397	VO	M00001487D:G03
1712	802.H5.sp6:164828	VO	M00001488B:G12
1713	802.B6.sp6:164757	VO	M00001489B:F08
1714	802.C6.sp6:164769	VO	M00001489D:C08
1715	802.D6.sp6:164781	VO	M00001490B:G04
1716	802.E6.sp6:164793	VO	M00001491C:C01
1717	802.F6.sp6:164805	VNO	
1718	802.G6.sp6:164817	VO	M00001496A:B03
1719	802.H6.sp6:164829	VNO	
1720	802.A7.sp6:164746	VO	M00001496D:D02
1721	802.B7.sp6:164758	VNO	
1722	802.D7.sp6:164782	VNO	
1723	802.E7.sp6:164794	VO	M00001500A:D09
1724	802.F7.sp6:164806	VNO	
1725	802.G7.sp6:164818	VNO	
1726	802.H7.sp6:164830	VO	M00001504D:D09
1727	802.A8.sp6:164747	VO	M00001505A:E09
1728	802.B8.sp6:164759	VO	M00001506A:F01
1729	802.D8.sp6:164783	VO	M00001517D:C03
1730	802.E8.sp6:164795	VO	M00001518D:A10
1731	1033.A02.sp6:188314	VO	M00001530A:D11
1732	802.F8.sp6:164807	VO	M00001536B:B11
1733	802.G8.sp6:164819	VO	M00001537B:C12
1734	1033.B02.sp6:188326	VO	M00001539B:B01
1735	802.H8.sp6:164831	VO	M00001542C:D10
1736	802.A9.sp6:164748	VO	M00001542C:F06

SEQ ID NO:	Sample Name	Overlap	Clone Name
1737	802.B9.sp6:164760	VNO	
1738	802.C9.sp6:164772	VO	M00001543A:E04
1739	802.E9.sp6:164796	VO	M00001546B:H01
1740	802.G9.sp6:164820	VO	M00001551D:C12
1741	802.H9.sp6:164832	VO	M00001552B:D01
1742	802.A10.sp6:164749	VO	M00001553D:B06
1743	802.B10.sp6:164761	VNO	
1744	802.C10.sp6:164773	VO	M00001556D:A11
1745	802.D10.sp6:164785	VNO	
1746	802.E10.sp6:164797	VO	M00001557C:B08
1747	802.F10.sp6:164809	VO	M00001558B:A12
1748	802.G10.sp6:164821	VO	M00001560C:C01
1749	802.H10.sp6:164833	VO	M00001561B:C10
1750	1033.C02.sp6:188338	VO	M00001563C:D06
1751	1033.D02.sp6:188350	VO	M00001564C:D04
1752	1033.E02.sp6:188362	VO	M00001565A:A02
1753	1033.F02.sp6:188374	VO	M00001569B:F04
1754	1033.G02.sp6:188386	VO	M00001572C:E07
1755	1033.H02.sp6:188398	VO	M00001575A:H02
1756	1033.A03.sp6:188315	VO	M00001582D:B10
1757	1033.B03.sp6:188327	VO	M00001584C:A03
1758	1033.E04.sp6:188364	VO	M00001618B:F02
1759	1033.B08.sp6:188332	VO	M00001687C:A06
1760	1033.H12.sp6:188408	VNO	
1761	1034.C05.sp6:188533	VO	M00003830A:A10
1762	1034.F05.sp6:188569	VO	M00003833D:D06
1763	1034.D06.sp6:188546	VO	M00003839D:G06
1764	1034.G06.sp6:188582	VO	M00003843A:B01
1765	1034.H07.sp6:188595	VO	M00003858A:D01
1766	1034.A08.sp6:188512	VO	M00003859C:B09
1767	1034.E08.sp6:188560	VO	M00003868D:F07
1768	1034.C10.sp6:188538	VO	M00003895D:A03
1769	1034.B11.sp6:188527	VO	M00003906C:H12
1770	1034.G11.sp6:188587	VNO	
1771	1034.D12.sp6:188552	VO	M00003918C:E07
1772	1035.H01.sp6:188781	VNO	
1773	1035.G02.sp6:188770	VNO	
1774	325.D3.sp6:145862	VNO	
1775	1035.A05.sp6:188701	VNO	
1776	1035.F05.sp6:188761	VNO	
1777	803.H1.sp6:165016	VNO	
1778	803.F2.sp6:164993	VNO	
1779	1035.G06.sp6:188774	VO	M00004030A:G12

SEQ ID NO:	Sample Name	Overlap	Clone Name
1780	1035.A07.sp6:188703	VO	M00004030B:C05
1781	1035.B07.sp6:188715	VNO	
1782	1035.D08.sp6:188740	VO	M00004035D:C05
1783	1035.G08.sp6:188776	VO	M00004036C:D01
1784	1035.A09.sp6:188705	VNO	
1785	1035.B09.sp6:188717	VO	M00004037B:B05
1786	1035.G09.sp6:188777	VO	M00004038C:D12
1787	803.C4.sp6:164959	VO	M00004051C:D02
1788	803.A5.sp6:164936	VNO	
1789	774.E2.sp6:162484	VO	M00004054D:D02
1790	803.D5.sp6:164972	VNO	
1791	803.C6.sp6:164961	VNO	
1792	803.D6.sp6:164973	VNO	
1793	1035.A12.sp6:188708	VNO	
1794	1035.C12.sp6:188732	VO	M00004076D:B03
1795	774.E4.sp6:162500	VO	M00004081B:C11
1796	1035.G12.sp6:188780	VO	M00004081B:C11
1797	1036.H01.sp6:188973	VO	M00004089A:F02
1798	1036.D02.sp6:188926	VO	M00004091B:G04
1799	1036.G03.sp6:188963	VO	M00004103B:C07
1800	1036.F04.sp6:188952	VNO	
1801	1036.H04.sp6:188976	VO	M00004115A:F01
1802	1036.A05.sp6:188893	VO	M00004115A:G09
1803	1036.B06.sp6:188906	VNO	
1804	803.A7.sp6:164938	VNO	
1805	803.E8.sp6:164987	VNO	
1806	803.F8.sp6:164999	VO	M00004159D:C04
1807	803.A9.sp6:164940	VO	M00004160A:D07
1808	1036.D06.sp6:188930	VO	M00004178B:F06
1809	1036.F06.sp6:188954	VNO	
1810	1036.H06.sp6:188978	VO	M00004184B:F11
1811	1036.D09.sp6:188933	VO	M00004202B:A02
1812	1036.F09.sp6:188957	VO	M00004202B:G09
1813	803.H10.sp6:165025	VNO	
1814	803.H11.sp6:165026	VNO	
1815	803.C12.sp6:164967	VNO	
1816	804.D1.sp6:165160	VNO	
1817	983.D01.sp6:186199	VO	M00004247B:C11
1818	1036.D11.sp6:188935	VO	M00004249C:E12
1819	804.B3.sp6:165138	VNO	
1820	983.B03.sp6:186181	VO	M00004277D:C08
1821	804.F5.sp6:165188	VNO	
1822	983.F05.sp6:186221	VO	M00004337D:G08

SEQ ID NO:	Sample Name	Overlap	Clone Name
1823	983.G05.sp6:186230	VO	M00004345A:H06
1824	804.G5.sp6:165200	VNO	
1825	983.A06.sp6:186174	VO	M00004350B:F06
1826	804.A6.sp6:165129	VNO	
1827	774.D12.sp6:162563	VO	M00004350B:F06
1828	804.F7.sp6:165190	VNO	
1829	983.F07.sp6:186223	VO	M00004446A:G01
1830	992.E01.sp6:186367	VO	M00005332A:H10
1831	992.G02.sp6:186392	VNO	
1832	992.A04.sp6:186322	VO	M00005378C:A10
1833	992.D04.sp6:186358	VO	M00005384A:A01
1834	992.B05.sp6:186335	VO	M00005390B:G10
1835	992.H05.sp6:186407	VO	M00005399A:D01
1836	992.A06.sp6:186324	VNO	
1837	992.B06.sp6:186336	VO	M00005399D:B02
1838	020.G4.sp6:128666	VO	M00005404C:F02
1839	020.G8.sp6:128670	VO	M00005411A:C07
1840	992.H06.sp6:186408	VNO	
1841	953.F01.sp6:185185	VO	M00005411D:A03
1842	992.A07.sp6:186325	VO	M00005411D:A03
1843	992.D08.sp6:186362	VO	M00005446A:G01
1844	992.B09.sp6:186339	VO	M00005450B:B01
1845	953.A07.sp6:185131	VO	M00005450B:B01
1846	953.E07.sp6:185179	VO	M00005452C:A02
1847	992.E09.sp6:186375	VO	M00005452C:A02
1848	992.G09.sp6:186399	VO	M00005455A:D01
1849	992.H09.sp6:186411	VO	M00005455A:G03
1850	992.D11.sp6:186365	VNO	
1851	953.H10.sp6:185218	VO	M00005477C:D08
1852	992.F11.sp6:186389	VO	M00005477C:D08
1853	953.D11.sp6:185171	VO	M00005480A:H12
1854	992.H11.sp6:186413	VO	M00005480C:B12
1855	992.A12.sp6:186330	VO	M00005481C:A05
1856	953.E11.sp6:185183	VO	M00005481C:A05
1857	953.C12.sp6:185160	VO	M00005485C:A03
1858	992.F12.sp6:186390	VO	M00005485C:A03
1859	953.E12.sp6:185184	VO	M00005486C:B03
1860	993.C03.sp6:186537	VO	M00005510B:D06
1861	993.D03.sp6:186549	VO	M00005513A:D08
1862	993.E03.sp6:186561	VO	M00005524C:B01
1863	993.G03.sp6:186585	VO	M00005528D:H06
1864	993.A04.sp6:186514	VO	M00005530B:E04
1865	993.B05.sp6:186527	VO	M00005616B:D05

SEQ ID NO:	Sample Name	Overlap	Clone Name
1866	993.C06.sp6:186540	VNO	
1867	993.B08.sp6:186530	VO	M00005704A:B11
1868	993.C08.sp6:186542	VO	M00005708D:B03
1869	993.D09.sp6:186555	VO	M00005765C:C04
1870	993.E09.sp6:186567	VO	M00005772A:F03
1871	993.F10.sp6:186580	VO	M00006577B:H12
1872	993.C11.sp6:186545	VO	M00006587A:H08
1873	993.D11.sp6:186557	VNO	
1874	993.G11.sp6:186593	VNO	
1875	993.H12.sp6:186606	VO	M00006615B:F05
1876	626.B2.sp6:157417	VO	M00007953B:B03
1877	627.E6.sp6:157649	VO	M00007985A:B09
1878	633.C4.sp6:156098	VO	M00008061A:F02
1879	636.F10.sp6:158241	VO	M00022070B:C10
1880	641.G8.GZ42:158428	VO	M00022109B:A11
1881	642.B7.sp6:156281	VO	M00022176C:A08
1882	1010.F02.sp6:189986	VNO	
1883	1010.A09.sp6:189945	VO	M00022828C:E04
1884	1033.C03.sp6:188339	VO	M00001586A:F09
1885	1033.D03.sp6:188351	VO	M00001588D:H08
1886	1033.E03.sp6:188363	VO	M00001589C:D12
1887	1033.F03.sp6:188375	VO	M00001589D:G10
1888	1033.G03.sp6:188387	VO	M00001590D:A07
1889	802.A11.sp6:164750	VNO	
1890	802.B11.sp6:164762	VO	M00001597C:B03
1891	1033.H03.sp6:188399	VO	M00001598C:D10
1892	1033.A04.sp6:188316	VO	M00001599A:H09
1893	1033.B04.sp6:188328	VNO	
1894	1033.C04.sp6:188340	VO	M00001610B:A01
1895	1033.D04.sp6:188352	VO	M00001614C:G04
1896	1033.F04.sp6:188376	VO	M00001618C:E06
1897	1033.G04.sp6:188388	VO	M00001621C:A04
1898	802.E11.sp6:164798	VNO	
1899	802.G11.sp6:164822	VO	M00001623B:B01
1900	802.H11.sp6:164834	VO	M00001623D:A09
1901	1033.H04.sp6:188400	VO	M00001626B:H05
1902	1033.A05.sp6:188317	VNO	
1903	1033.B05.sp6:188329	VO	M00001634C:E12
1904	1033.C05.sp6:188341	VO	M00001639A:A04
1905	1033.D05.sp6:188353	VNO	
1906	1033.E05.sp6:188365	VO	M00001640A:F04
1907	1033.F05.sp6:188377	VO	M00001641B:G05
1908	802.C12.sp6:164775	VO	M00001644D:F09

SEQ ID NO:	Sample Name	Overlap	Clone Name
1909	1033.G05.sp6:188389	VO	M00001647C:C07
1910	1033.H05.sp6:188401	VO	M00001648C:F06
1911	1033.A06.sp6:188318	VNO	
1912	1033.B06.sp6:188330	VO	M00001649D:H05
1913	1033.D06.sp6:188354	VO	M00001655A:F07
1914	1033.E06.sp6:188366	VO	M00001656D:F11
1915	1033.F06.sp6:188378	VNO	
1916	1033.G06.sp6:188390	VNO	
1917	1033.H06.sp6:188402	VO	M00001660A:F10
1918	1033.A07.sp6:188319	VO	M00001663C:C03
1919	1033.B07.sp6:188331	VO	M00001669A:H11
1920	1033.C07.sp6:188343	VO	M00001669B:A03
1921	1033.D07.sp6:188355	VO	M00001675C:B03
1922	1033.E07.sp6:188367	VO	M00001677A:A06
1923	1033.F07.sp6:188379	VO	M00001677A:A12
1924	1033.G07.sp6:188391	VO	M00001678D:A12
1925	1033.H07.sp6:188403	VNO	
1926	1033.A08.sp6:188320	VNO	
1927	1033.C08.sp6:188344	VO	M00001693D:F07
1928	1033.D08.sp6:188356	VO	M00003741A:E01
1929	1033.E08.sp6:188368	VO	M00003745C:E03
1930	1033.F08.sp6:188380	VO	M00003746A:E01
1931	1033.G08.sp6:188392	VNO	
1932	1033.H08.sp6:188404	VO	M00003748B:B06
1933	1033.A09.sp6:188321	VO	M00003749B:C08
1934	1033.B09.sp6:188333	VO	M00003749D:G07
1935	1033.C09.sp6:188345	VO	M00003752A:B06
1936	1033.D09.sp6:188357	VO	M00003752D:D09
1937	1033.E09.sp6:188369	VO	M00003753C:B01
1938	1033.F09.sp6:188381	VO	M00003754C:F01
1939	1033.G09.sp6:188393	VO	M00003756C:C08
1940	1033.H09.sp6:188405	VO	M00003759A:E10
1941	1033.A10.sp6:188322	VO	M00003762A:D11
1942	1033.B10.sp6:188334	VO	M00003763B:D03
1943	1033.C10.sp6:188346	VO	M00003763D:F06
1944	1033.D10.sp6:188358	VO	M00003765D:E02
1945	1033.E10.sp6:188370	VO	M00003766A:G09
1946	1033.F10.sp6:188382	VO	M00003766B:G04
1947	1033.G10.sp6:188394	VO	M00003767C:F04
1948	1033.H10.sp6:188406	VO	M00003769B:A04
1949	1033.A11.sp6:188323	VO	M00003769D:G12
1950	1033.B11.sp6:188335	VO	M00003770D:C07
1951	1033.C11.sp6:188347	VO	M00003771A:G09

SEQ ID NO:	Sample Name	Overlap	Clone Name
1952	1033.D11.sp6:188359	VO	M00003771D:A10
1953	1033.E11.sp6:188371	VO	M00003773A:C09
1954	1033.F11.sp6:188383	VO	M00003773B:E09
1955	1033.G11.sp6:188395	VO	M00003773B:G08
1956	1033.H11.sp6:188407	VO	M00003773C:G06
1957	1033.A12.sp6:188324	VO	M00003773D:C02
1958	802.E12.sp6:164799	VNO	
1959	802.F12.sp6:164811	VNO	
1960	802.G12.sp6:164823	VO	M00003784C:B09
1961	802.H12.sp6:164835	VO	M00003785D:E01
1962	803.A1.sp6:164932	VNO	
1963	803.B1.sp6:164944	VNO	
1964	803.C1.sp6:164956	VNO	
1965	1033.B12.sp6:188336	VO	M00003789C:E03
1966	1033.C12.sp6:188348	VO	M00003790B:F12
1967	1033.D12.sp6:188360	VO	M00003793C:D11
1968	1033.F12.sp6:188384	VO	M00003796B:C07
1969	1033.G12.sp6:188396	VO	M00003796C:H03
1970	1034.A01.sp6:188505	VO	M00003797D:H06
1971	1034.B01.sp6:188517	VNO	
1972	1034.C01.sp6:188529	VO	M00003801D:F05
1973	1034.D01.sp6:188541	VO	M00003805A:G05
1974	1034.E01.sp6:188553	VO	M00003808C:D09
1975	1034.F01.sp6:188565	VO	M00003809A:A12
1976	1034.G01.sp6:188577	VO	M00003809A:H12
1977	1034.H01.sp6:188589	VO	M00003809B:D08
1978	1034.A02.sp6:188506	VO	M00003811B:E07
1979	1034.B02.sp6:188518	VO	M00003812B:F08
1980	1034.C02.sp6:188530	VO	M00003812D:E08
1981	1034.D02.sp6:188542	VO	M00003813D:A06
1982	1034.E02.sp6:188554	VO	M00003815C:A06
1983	1034.F02.sp6:188566	VNO	
1984	1034.G02.sp6:188578	VNO	
1985	1034.H02.sp6:188590	VO	M00003818A:F09
1986	1034.A03.sp6:188507	VO	M00003818B:A01
1987	1034.B03.sp6:188519	VO	M00003818C:E09
1988	1034.C03.sp6:188531	VNO	
1989	1034.D03.sp6:188543	VO	M00003819C:E04
1990	1034.E03.sp6:188555	VO	M00003819D:G09
1991	1034.F03.sp6:188567	VO	M00003820A:H04
1992	1034.H03.sp6:188591	VO	M00003820D:E02
1993	1034.A04.sp6:188508	VO	M00003821C:E04
1994	1034.B04.sp6:188520	VO	M00003822A:G05

SEQ ID NO:	Sample Name	Overlap	Clone Name
1995	803.E12.sp6:164991	VNO	
1996	020.E2.sp6:128640	VO	M00004242C:C01
1997	019.F9.sp6:128467	VO	M00006720C:C11
1998	019.G10.sp6:128480	VO	M00007019A:B01
1999	1034.C04.sp6:188532	VNO	
2000	1034.D04.sp6:188544	VO	M00003825B:A05
2001	1034.E04.sp6:188556	VNO	
2002	1034.F04.sp6:188568	VO	M00003825C:B02
2003	1034.G04.sp6:188580	VO	M00003825C:B12
2004	1034.B05.sp6:188521	VO	M00003829A:E02
2005	1034.D05.sp6:188545	VO	M00003832B:G03
2006	1034.E05.sp6:188557	VO	M00003833B:A11
2007	1034.G05.sp6:188581	VO	M00003834A:A03
2008	1034.A06.sp6:188510	VO	M00003835D:H05
2009	1034.B06.sp6:188522	VO	M00003837C:F05
2010	1034.C06.sp6:188534	VNO	
2011	1034.E06.sp6:188558	VO	M00003841A:E09
2012	1034.F06.sp6:188570	VO	M00003841B:D05
2013	1034.H06.sp6:188594	VO	M00003844C:D04
2014	1034.A07.sp6:188511	VO	M00003844C:H05
2015	1034.B07.sp6:188523	VO	M00003845A:A05
2016	1034.C07.sp6:188535	VO	M00003846B:H02
2017	1034.D07.sp6:188547	VO	M00003846D:C12
2018	1034.E07.sp6:188559	VO	M00003850B:D11
2019	1034.G07.sp6:188583	VNO	
2020	1034.B08.sp6:188524	VO	M00003860B:A07
2021	803.D1.sp6:164968	VO	M00003862C:H10
2022	803.E1.sp6:164980	VO	M00003864B:A04
2023	803.F1.sp6:164992	VNO	
2024	803.G1.sp6:165004	VO	M00003864D:G05
2025	1034.C08.sp6:188536	VNO	
2026	1034.D08.sp6:188548	VO	M00003868D:F02
2027	1034.F08.sp6:188572	VO	M00003871A:E09
2028	1034.G08.sp6:188584	VNO	
2029	1034.H08.sp6:188596	VNO	
2030	1034.A09.sp6:188513	VNO	
2031	1034.B09.sp6:188525	VO	M00003884D:A12
2032	1034.C09.sp6:188537	VNO	
2033	1034.D09.sp6:188549	VO	M00003887B:C03
2034	1034.E09.sp6:188561	VO	M00003888B:A10
2035	1034.F09.sp6:188573	VO	M00003888C:E01
2036	1034.G09.sp6:188585	VO	M00003890B:H07
2037	1034.H09.sp6:188597	VO	M00003890D:C03

SEQ ID NO:	Sample Name	Overlap	Clone Name
2038	1034.A10.sp6:188514	VO	M00003892D:D04
2039	1034.B10.sp6:188526	VO	M00003893C:D12
2040	1034.D10.sp6:188550	VO	M00003896B:F08
2041	1034.E10.sp6:188562	VO	M00003896D:B01
2042	1034.F10.sp6:188574	VNO	
2043	1034.G10.sp6:188586	VO	M00003903C:H03
2044	1034.H10.sp6:188598	VO	M00003905C:B01
2045	1034.A11.sp6:188515	VO	M00003905C:E10
2046	1034.C11.sp6:188539	VO	M00003909D:G01
2047	1034.D11.sp6:188551	VO	M00003911C:G05
2048	1034.E11.sp6:188563	VO	M00003912B:G11
2049	1034.F11.sp6:188575	VO	M00003912C:C11
2050	1034.H11.sp6:188599	VO	M00003914C:E03
2051	1034.A12.sp6:188516	VO	M00003915A:D09
2052	1034.B12.sp6:188528	VNO	
2053	1034.C12.sp6:188540	VO	M00003915C:G01
2054	1034.E12.sp6:188564	VO	M00003920B:A10
2055	1034.F12.sp6:188576	VNO	
2056	1034.G12.sp6:188588	VO	M00003921D:C06
2057	1034.H12.sp6:188600	VO	M00003923A:H07
2058	1035.A01.sp6:188697	VNO	
2059	1035.B01.sp6:188709	VNO	
2060	1035.C01.sp6:188721	VO	M00003936C:F10
2061	1035.E01.sp6:188745	VO	M00003948B:B03
2062	1035.F01.sp6:188757	VO	M00003949B:A08
2063	1035.G01.sp6:188769	VO	M00003949B:D05
2064	1035.A02.sp6:188698	VO	M00003961B:A12
2065	1035.B02.sp6:188710	VO	M00003961C:G02
2066	1035.C02.sp6:188722	VO	M00003962B:B09
2067	1035.D02.sp6:188734	VO	M00003963B:D12
2068	1035.E02.sp6:188746	VO	M00003965A:F07
2069	1035.F02.sp6:188758	VNO	
2070	1035.H02.sp6:188782	VNO	
2071	1035.A03.sp6:188699	VO	M00003973A:C05
2072	1035.B03.sp6:188711	VO	M00003973B:H06
2073	1035.C03.sp6:188723	VO	M00003974B:A04
2074	1035.D03.sp6:188735	VNO	
2075	1035.E03.sp6:188747	VNO	
2076	1035.F03.sp6:188759	VNO	
2077	1035.G03.sp6:188771	VO	M00003976D:D12
2078	1035.H03.sp6:188783	VO	M00003977C:A08
2079	1035.A04.sp6:188700	VO	M00003980B:F12
2080	1035.B04.sp6:188712	VO	M00003980C:A11

SEQ ID NO:	Sample Name	Overlap	Clone Name
2081	1035.C04.sp6:188724	VO	M00003980C:G10
2082	1035.D04.sp6:188736	VO	M00003981C:E04
2083	1035.H04.sp6:188784	VO	M00003983C:E07
2084	1035.C05.sp6:188725	VNO	
2085	1035.D05.sp6:188737	VO	M00003987D:F06
2086	1035.E05.sp6:188749	VO	M00003988B:C10
2087	1035.G05.sp6:188773	VNO	
2088	803.A2.sp6:164933	VO	M00003992C:G01
2089	803.B2.sp6:164945	VO	M00003992D:G01
2090	803.C2.sp6:164957	VNO	
2091	803.D2.sp6:164969	VO	M00003994C:C11
2092	803.E2.sp6:164981	VO	M00003996D:C04
2093	803.G2.sp6:165005	VO	M00003997D:D07
2094	803.H2.sp6:165017	VNO	
2095	803.A3.sp6:164934	VO	M00003998A:D03
2096	803.B3.sp6:164946	VO	M00003998A:G12
2097	803.C3.sp6:164958	VO	M00003998C:H10
2098	803.D3.sp6:164970	VO	M00003999C:C12
2099	1035.H05.sp6:188785	VO	M00004027A:B10
2100	1035.A06.sp6:188702	VO	M00004027C:H01
2101	1035.B06.sp6:188714	VO	M00004028C:B04
2102	1035.D06.sp6:188738	VO	M00004029A:E01
2103	1035.F06.sp6:188762	VNO	
2104	1035.H06.sp6:188786	VO	M00004030B:B02
2105	1035.C07.sp6:188727	VO	M00004031A:G05
2106	1035.E07.sp6:188751	VO	M00004032D:D03
2107	1035.F07.sp6:188763	VNO	
2108	1035.G07.sp6:188775	VNO	
2109	1035.A08.sp6:188704	VNO	
2110	1035.C08.sp6:188728	VO	M00004035B:H11
2111	1035.E08.sp6:188752	VO	M00004035D:E04
2112	1035.F08.sp6:188764	VO	M00004036B:F09
2113	1035.H08.sp6:188788	VO	M00004037A:A07
2114	1035.C09.sp6:188729	VO	M00004037C:C05
2115	1035.E09.sp6:188753	VO	M00004037D:B05
2116	1035.F09.sp6:188765	VO	M00004038C:C05
2117	1035.H09.sp6:188789	VO	M00004039D:D03
2118	1035.A10.sp6:188706	VO	M00004040B:B09
2119	1035.B10.sp6:188718	VO	M00004040C:G12
2120	1035.C10.sp6:188730	VO	M00004040D:B05
2121	1035.D10.sp6:188742	VO	M00004041B:F01
2122	1035.E10.sp6:188754	VO	M00004041D:E06
2123	1035.F10.sp6:188766	VO	M00004043D:C10

SEQ ID NO:	Sample Name	Overlap	Clone Name
2124	1035.G10.sp6:188778	VNO	
2125	803.E3.sp6:164982	VO	M00004045A:B12
2126	803.F3.sp6:164994	VO	M00004046A:F04
2127	803.G3.sp6:165006	VNO	
2128	803.H3.sp6:165018	VNO	
2129	803.A4.sp6:164935	VNO	
2130	803.B4.sp6:164947	VNO	
2131	803.D4.sp6:164971	VNO	
2132	803.E4.sp6:164983	VO	M00004052C:A08
2133	803.G4.sp6:165007	VO	M00004054B:G02
2134	803.H4.sp6:165019	VO	M00004054D:A03
2135	803.B5.sp6:164948	VO	M00004055B:F06
2136	803.C5.sp6:164960	VO	M00004058B:C11
2137	803.E5.sp6:164984	VO	M00004058C:E08
2138	803.F5.sp6:164996	VO	M00004059A:G09
2139	803.G5.sp6:165008	VO	M00004060C:A02
2140	803.H5.sp6:165020	VNO	
2141	803.A6.sp6:164937	VO	M00004060D:A07
2142	803.B6.sp6:164949	VO	M00004063C:B11
2143	803.E6.sp6:164985	VNO	
2144	1035.H10.sp6:188790	VO	M00004068A:F02
2145	1035.A11.sp6:188707	VO	M00004068B:D04
2146	1035.B11.sp6:188719	VNO	
2147	1035.C11.sp6:188731	VO	M00004069B:B01
2148	1035.D11.sp6:188743	VO	M00004069D:G02
2149	1035.E11.sp6:188755	VO	M00004071A:H03
2150	1035.F11.sp6:188767	VO	M00004073D:B11
2151	1035.G11.sp6:188779	VNO	
2152	1035.H11.sp6:188791	VNO	
2153	1035.B12.sp6:188720	VNO	
2154	1035.D12.sp6:188744	VNO	
2155	1035.E12.sp6:188756	VNO	
2156	1035.F12.sp6:188768	VO	M00004078C:A08
2157	1035.H12.sp6:188792	VO	M00004081C:A01
2158	1036.A01.sp6:188889	VO	M00004084A:D11
2159	1036.B01.sp6:188901	VO	M00004084C:G04
2160	1036.C01.sp6:188913	VO	M00004085B:G06
2161	1036.D01.sp6:188925	VO	M00004086A:A03
2162	1036.E01.sp6:188937	VO	M00004086D:A07
2163	1036.F01.sp6:188949	VO	M00004087C:F05
2164	1036.G01.sp6:188961	VO	M00004088A:F12
2165	1036.A02.sp6:188890	VO	M00004089A:G03
2166	1036.B02.sp6:188902	VO	M00004091A:E01

SEQ ID NO:	Sample Name	Overlap	Clone Name
2167	1036.C02.sp6:188914	VO	M00004091B:C12
2168	1036.E02.sp6:188938	VO	M00004091C:F04
2169	1036.F02.sp6:188950	VO	M00004091D:D09
2170	1036.G02.sp6:188962	VO	M00004092A:C03
2171	1036.H02.sp6:188974	VO	M00004092A:D04
2172	1036.A03.sp6:188891	VO	M00004093A:F03
2173	1036.B03.sp6:188903	VO	M00004093D:D09
2174	1036.C03.sp6:188915	VNO	
2175	1036.D03.sp6:188927	VO	M00004101D:A03
2176	1036.E03.sp6:188939	VO	M00004102B:B04
2177	1036.F03.sp6:188951	VO	M00004102C:F07
2178	1036.H03.sp6:188975	VNO	
2179	1036.A04.sp6:188892	VNO	
2180	1036.B04.sp6:188904	VNO	
2181	1036.C04.sp6:188916	VNO	
2182	1036.D04.sp6:188928	VO	M00004107C:A01
2183	1036.E04.sp6:188940	VNO	
2184	1036.G04.sp6:188964	VO	M00004114C:F02
2185	1036.C05.sp6:188917	VO	M00004117B:F01
2186	1036.D05.sp6:188929	VO	M00004120A:C02
2187	1036.E05.sp6:188941	VO	M00004126B:G02
2188	1036.F05.sp6:188953	VNO	
2189	1036.G05.sp6:188965	VO	M00004129A:H08
2190	1036.H05.sp6:188977	VO	M00004130C:A09
2191	1036.A06.sp6:188894	VO	M00004130D:E04
2192	1036.C06.sp6:188918	VO	M00004133D:A01
2193	803.F6.sp6:164997	VNO	
2194	803.G6.sp6:165009	VNO	
2195	803.H6.sp6:165021	VNO	
2196	803.B7.sp6:164950	VO	M00004143A:G12
2197	803.C7.sp6:164962	VO	M00004143A:H07
2198	803.D7.sp6:164974	VNO	
2199	803.E7.sp6:164986	VNO	
2200	803.F7.sp6:164998	VO	M00004145C:A03
2201	803.G7.sp6:165010	VO	M00004146D:A07
2202	803.H7.sp6:165022	VO	M00004147A:G03
2203	803.A8.sp6:164939	VO	M00004149B:H12
2204	803.B8.sp6:164951	VNO	
2205	803.C8.sp6:164963	VO	M00004153D:E06
2206	803.D8.sp6:164975	VO	M00004154D:F11
2207	803.G8.sp6:165011	VNO	
2208	803.H8.sp6:165023	VNO	
2209	803.B9.sp6:164952	VNO	

SEQ ID NO:	Sample Name	Overlap	Clone Name
2210	803.C9.sp6:164964	VNO	
2211	803.D9.sp6:164976	VNO	
2212	803.E9.sp6:164988	VNO	
2213	803.F9.sp6:165000	VNO	
2214	803.G9.sp6:165012	VO	M00004166B:E10
2215	803.H9.sp6:165024	VO	M00004166C:A03
2216	803.A10.sp6:164941	VO	M00004166D:G07
2217	803.B10.sp6:164953	VNO	
2218	803.C10.sp6:164965	VNO	
2219	1036.E06.sp6:188942	VO	M00004180B:F04
2220	1036.G06.sp6:188966	VNO	
2221	803.D10.sp6:164977	VNO	
2222	1036.A07.sp6:188895	VNO	
2223	1036.B07.sp6:188907	VNO	
2224	1036.C07.sp6:188919	VNO	
2225	1036.D07.sp6:188931	VO	M00004188A:E10
2226	1036.F07.sp6:188955	VNO	
2227	1036.G07.sp6:188967	VO	M00004190C:G07
2228	1036.H07.sp6:188979	VO	M00004190D:A10
2229	1036.A08.sp6:188896	VNO	
2230	1036.B08.sp6:188908	VO	M00004191B:G01
2231	1036.C08.sp6:188920	VO	M00004193A:C07
2232	1036.D08.sp6:188932	VO	M00004193C:H01
2233	803.E10.sp6:164989	VO	M00004196C:G05
2234	1036.E08.sp6:188944	VO	M00004198D:H04
2235	1036.F08.sp6:188956	VO	M00004199D:C02
2236	1036.G08.sp6:188968	VO	M00004200A:A09
2237	1036.H08.sp6:188980	VO	M00004200A:G06
2238	803.F10.sp6:165001	VNO	
2239	1036.A09.sp6:188897	VO	M00004200D:A07
2240	1036.B09.sp6:188909	VO	M00004201D:C11
2241	1036.C09.sp6:188921	VO	M00004201D:E12
2242	1036.E09.sp6:188945	VNO	
2243	1036.G09.sp6:188969	VO	M00004204A:D04
2244	1036.H09.sp6:188981	VO	M00004204A:D10
2245	1036.A10.sp6:188898	VO	M00004204B:A04
2246	1036.B10.sp6:188910	VNO	
2247	1036.C10.sp6:188922	VO	M00004210A:B09
2248	1036.D10.sp6:188934	VO	M00004213A:H12
2249	1036.E10.sp6:188946	VO	M00004214A:D03
2250	1036.F10.sp6:188958	VO	M00004216D:E10
2251	1036.G10.sp6:188970	VO	M00004217A:A05
2252	1036.H10.sp6:188982	VO	M00004217A:A11

SEQ ID NO:	Sample Name	Overlap	Clone Name
2253	1036.A11.sp6:188899	VO	M00004217D:G10
2254	1036.B11.sp6:188911	VO	M00004218C:G10
2255	1036.C11.sp6:188923	VNO	
2256	803.G10.sp6:165013	VNO	
2257	803.A11.sp6:164942	VNO	
2258	803.B11.sp6:164954	VNO	
2259	803.C11.sp6:164966	VNO	
2260	803.D11.sp6:164978	VO	M00004234B:E03
2261	803.E11.sp6:164990	VO	M00004234B:G06
2262	803.G11.sp6:165014	VO	M00004236D:F04
2263	803.A12.sp6:164943	VNO	
2264	803.B12.sp6:164955	VO	M00004240D:A07
2265	803.D12.sp6:164979	VNO	
2266	803.F12.sp6:165003	VO	M00004242C:C02
2267	803.G12.sp6:165015	VNO	
2268	803.H12.sp6:165027	VO	M00004244B:A02
2269	804.A1.sp6:165124	VNO	
2270	983.A01.sp6:186169	VO	M00004245A:G09
2271	983.B01.sp6:186179	VO	M00004245C:A03
2272	804.C1.sp6:165148	VNO	
2273	983.C01.sp6:186189	VO	M00004247A:E01
2274	983.E01.sp6:186208	VO	M00004248A:G08
2275	804.E1.sp6:165172	VNO	
2276	1036.E11.sp6:188947	VNO	
2277	1036.F11.sp6:188959	VO	M00004252D:A07
2278	1036.G11.sp6:188971	VO	M00004252D:H08
2279	1036.H11.sp6:188983	VO	M00004253B:A10
2280	1036.A12.sp6:188900	VO	M00004253B:F06
2281	1036.B12.sp6:188912	VO	M00004253C:E10
2282	1036.C12.sp6:188924	VO	M00004253D:F09
2283	1036.D12.sp6:188936	VO	M00004257C:A08
2284	1036.E12.sp6:188948	VO	M00004260A:B07
2285	1036.F12.sp6:188960	VO	M00004260C:A12
2286	1036.G12.sp6:188972	VO	M00004260C:E10
2287	1036.H12.sp6:188984	VO	M00004262C:C01
2288	804.F1.sp6:165184	VNO	
2289	983.F01.sp6:186217	VO	M00004263D:F06
2290	983.G01.sp6:186226	VNO	
2291	983.H01.sp6:186235	VO	M00004266B:H06
2292	804.H1.sp6:165208	VNO	
2293	983.A02.sp6:186170	VO	M00004268C:F08
2294	983.B02.sp6:186180	VO	M00004268D:G07
2295	804.B2.sp6:165137	VNO	

SEQ ID NO:	Sample Name	Overlap	Clone Name
2296	983.C02.sp6:186190	VO	M00004269A:B11
2297	804.D2.sp6:165161	VNO	
2298	983.D02.sp6:186200	VO	M00004269D:E08
2299	983.E02.sp6:186209	VO	M00004272D:D02
2300	804.E2.sp6:165173	VNO	
2301	804.F2.sp6:165185	VNO	
2302	983.F02.sp6:186218	VO	M00004273D:E11
2303	804.G2.sp6:165197	VNO	
2304	983.G02.sp6:186227	VO	M00004276C:E12
2305	804.H2.sp6:165209	VNO	
2306	983.H02.sp6:186236	VNO	
2307	983.A03.sp6:186171	VO	M00004277C:H11
2308	804.A3.sp6:165126	VNO	
2309	804.C3.sp6:165150	VNO	
2310	983.C03.sp6:186191	VO	M00004279D:E02
2311	983.D03.sp6:186201	VNO	
2312	804.D3.sp6:165162	VNO	
2313	983.E03.sp6:186210	VO	M00004281B:B05
2314	804.E3.sp6:165174	VNO	
2315	804.F3.sp6:165186	VNO	
2316	983.F03.sp6:186219	VO	M00004283C:D03
2317	983.G03.sp6:186228	VNO	
2318	804.G3.sp6:165198	VNO	
2319	804.H3.sp6:165210	VNO	
2320	983.H03.sp6:186237	VO	M00004285B:E01
2321	804.A4.sp6:165127	VNO	
2322	983.A04.sp6:186172	VNO	
2323	804.B4.sp6:165139	VNO	
2324	983.B04.sp6:186182	VNO	
2325	804.C4.sp6:165151	VNO	
2326	983.C04.sp6:186192	VNO	
2327	983.D04.sp6:186202	VO	M00004297D:E08
2328	804.D4.sp6:165163	VNO	
2329	804.E4.sp6:165175	VNO	
2330	983.E04.sp6:186211	VO	M00004298B:D04
2331	804.F4.sp6:165187	VNO	
2332	983.F04.sp6:186220	VO	M00004308A:E06
2333	804.G4.sp6:165199	VNO	
2334	983.G04.sp6:186229	VO	M00004324B:D09
2335	983.H04.sp6:186238	VO	M00004328A:H06
2336	804.H4.sp6:165211	VNO	
2337	804.A5.sp6:165128	VNO	
2338	983.A05.sp6:186173	VO	M00004329C:F11

SEQ ID NO:	Sample Name	Overlap	Clone Name
2339	804.B5.sp6:165140	VNO	
2340	983.B05.sp6:186183	VO	M00004331D:H08
2341	983.C05.sp6:186193	VNO	
2342	804.C5.sp6:165152	VNO	
2343	983.D05.sp6:186203	VO	M00004332B:E11
2344	804.D5.sp6:165164	VNO	
2345	983.E05.sp6:186212	VO	M00004332C:E09
2346	804.E5.sp6:165176	VNO	
2347	983.H05.sp6:186239	VNO	
2348	804.H5.sp6:165212	VNO	
2349	804.B6.sp6:165141	VNO	
2350	983.B06.sp6:186184	VO	M00004383A:F02
2351	983.C06.sp6:186194	VO	M00004385C:B11
2352	804.C6.sp6:165153	VNO	
2353	983.D06.sp6:186204	VO	M00004388C:D05
2354	804.D6.sp6:165165	VNO	
2355	804.E6.sp6:165177	VNO	
2356	983.E06.sp6:186213	VO	M00004389C:E01
2357	983.F06.sp6:186222	VNO	
2358	804.F6.sp6:165189	VNO	
2359	983.G06.sp6:186231	VO	M00004406A:H03
2360	804.G6.sp6:165201	VNO	
2361	983.H06.sp6:186240	VNO	
2362	804.H6.sp6:165213	VNO	
2363	804.A7.sp6:165130	VO	M00004408D:A10
2364	983.A07.sp6:186175	VO	M00004408D:A10
2365	983.B07.sp6:186185	VO	M00004410A:E03
2366	983.C07.sp6:186195	VO	M00004412B:E03
2367	983.D07.sp6:186205	VO	M00004419D:G01
2368	804.E7.sp6:165178	VNO	
2369	983.E07.sp6:186214	VO	M00004421A:G04
2370	804.G7.sp6:165202	VNO	
2371	983.G07.sp6:186232	VO	M00004447D:D10
2372	804.H7.sp6:165214	VNO	
2373	983.H07.sp6:186241	VO	M00004449D:H01
2374	983.A08.sp6:186176	VO	M00004460B:H09
2375	804.A8.sp6:165131	VNO	
2376	804.B8.sp6:165143	VNO	
2377	983.B08.sp6:186186	VNO	
2378	983.C08.sp6:186196	VO	M00004465C:B10
2379	804.C8.sp6:165155	VNO	
2380	983.D08.sp6:186206	VO	M00004465C:B12
2381	804.D8.sp6:165167	VNO	

SEQ ID NO:	Sample Name	Overlap	Clone Name
2382	983.E08.sp6:186215	VNO	
2383	804.E8.sp6:165179	VNO	
2384	983.F08.sp6:186224	VO	M00004467A:F09
2385	804.F8.sp6:165191	VNO	
2386	804.G8.sp6:165203	VNO	
2387	983.G08.sp6:186233	VO	M00004467D:F09
2388	804.H8.sp6:165215	VNO	
2389	983.H08.sp6:186242	VO	M00004469A:C12
2390	804.A9.sp6:165132	VNO	
2391	983.A09.sp6:186177	VNO	
2392	983.B09.sp6:186187	VO	M00004491D:D07
2393	804.B9.sp6:165144	VNO	
2394	804.C9.sp6:165156	VNO	
2395	983.C09.sp6:186197	VO	M00004497C:E09
2396	983.D09.sp6:186207	VO	M00004498B:E01
2397	804.D9.sp6:165168	VNO	
2398	804.E9.sp6:165180	VNO	
2399	983.E09.sp6:186216	VO	M00004501A:G06
2400	983.F09.sp6:186225	VO	M00004506C:H10
2401	804.G9.sp6:165204	VNO	
2402	983.G09.sp6:186234	VO	M00004508A:G12
2403	804.H9.sp6:165216	VNO	
2404	983.H09.sp6:186243	VO	M00004508B:G02
2405	804.A10.sp6:165133	VNO	
2406	983.A10.sp6:186178	VO	M00004509A:H02
2407	983.B10.sp6:186188	VNO	
2408	804.B10.sp6:165145	VNO	
2409	983.C10.sp6:186198	VO	M00004609C:C11
2410	992.B01.sp6:186331	VO	M00005294D:H02
2411	992.C01.sp6:186343	VO	M00005326B:F03
2412	992.G01.sp6:186391	VO	M00005342A:C04
2413	992.H01.sp6:186403	VO	M00005342A:D04
2414	992.A02.sp6:186320	VO	M00005342B:G10
2415	992.B02.sp6:186332	VO	M00005342D:F03
2416	992.C02.sp6:186344	VO	M00005349B:G01
2417	992.D02.sp6:186356	VO	M00005352B:D02
2418	992.H02.sp6:186404	VO	M00005354C:E02
2419	992.A03.sp6:186321	VO	M00005356A:D09
2420	992.C03.sp6:186345	VO	M00005359D:G07
2421	992.E03.sp6:186369	VO	M00005377A:A04
2422	992.H03.sp6:186405	VO	M00005378A:A08
2423	992.B04.sp6:186334	VO	M00005383D:D06
2424	992.C04.sp6:186346	VO	M00005383D:E07

SEQ ID NO:	Sample Name	Overlap	Clone Name
2425	992.E04.sp6:186370	VNO	
2426	992.F04.sp6:186382	VO	M00005385C:G05
2427	992.G04.sp6:186394	VNO	
2428	992.A05.sp6:186323	VO	M00005388D:F09
2429	992.D05.sp6:186359	VO	M00005393A:E11
2430	992.E05.sp6:186371	VO	M00005394A:G07
2431	992.G05.sp6:186395	VO	M00005397C:B03
2432	992.D06.sp6:186360	VNO	
2433	992.G06.sp6:186396	VO	M00005409D:C02
2434	992.C07.sp6:186349	VO	M00005415C:G08
2435	992.E07.sp6:186373	VO	M00005417A:E10
2436	992.F07.sp6:186385	VNO	
2437	992.A08.sp6:186326	VO	M00005442D:C05
2438	992.B08.sp6:186338	VNO	
2439	992.C08.sp6:186350	VO	M00005444B:E11
2440	992.E08.sp6:186374	VO	M00005446C:D12
2441	992.F08.sp6:186386	VNO	
2442	992.G08.sp6:186398	VNO	
2443	992.H08.sp6:186410	VNO	
2444	992.D09.sp6:186363	VNO	
2445	992.F09.sp6:186387	VO	M00005454C:H12
2446	992.E10.sp6:186376	VO	M00005462C:B02
2447	992.H10.sp6:186412	VO	M00005468A:D08
2448	953.H09.sp6:185217	VO	M00005468A:D08
2449	992.C11.sp6:186353	VO	M00005469D:C11
2450	992.D12.sp6:186366	VO	M00005483D:A12
2451	992.E12.sp6:186378	VO	M00005484A:D09
2452	992.H12.sp6:186414	VNO	
2453	993.A01.sp6:186511	VNO	
2454	993.B01.sp6:186523	VO	M00005491B:C03
2455	993.C01.sp6:186535	VO	M00005493B:A12
2456	993.D01.sp6:186547	VO	M00005493B:C08
2457	993.E01.sp6:186559	VO	M00005493B:E01
2458	993.F01.sp6:186571	VO	M00005494D:F11
2459	993.G01.sp6:186583	VO	M00005496C:A01
2460	993.H01.sp6:186595	VO	M00005496D:A10
2461	993.A02.sp6:186512	VO	M00005497B:H07
2462	993.B02.sp6:186524	VO	M00005497C:C07
2463	993.C02.sp6:186536	VNO	
2464	993.D02.sp6:186548	VO	M00005497C:C12
2465	993.E02.sp6:186560	VO	M00005497C:E03
2466	993.F02.sp6:186572	VO	M00005498B:F08
2467	993.G02.sp6:186584	VO	M00005498C:G05

SEQ ID NO:	Sample Name	Overlap	Clone Name
2468	993.H02.sp6:186596	VO	M00005505A:C08
2469	993.A03.sp6:186513	VO	M00005508A:H01
2470	993.B03.sp6:186525	VO	M00005508B:B04
2471	993.F03.sp6:186573	VO	M00005528D:A10
2472	993.H03.sp6:186597	VO	M00005530B:D03
2473	993.B04.sp6:186526	VO	M00005534A:G06
2474	993.C04.sp6:186538	VO	M00005534B:H10
2475	993.D04.sp6:186550	VO	M00005539D:G07
2476	993.E04.sp6:186562	VO	M00005548B:E03
2477	993.F04.sp6:186574	VO	M00005550B:D09
2478	993.G04.sp6:186586	VO	M00005565C:A08
2479	993.H04.sp6:186598	VO	M00005571A:E11
2480	993.A05.sp6:186515	VO	M00005589C:B03
2481	993.C05.sp6:186539	VNO	
2482	993.D05.sp6:186551	VO	M00005620C:C05
2483	993.E05.sp6:186563	VO	M00005621A:G10
2484	993.F05.sp6:186575	VO	M00005621D:F01
2485	993.G05.sp6:186587	VNO	
2486	993.H05.sp6:186599	VO	M00005626A:B11
2487	993.A06.sp6:186516	VO	M00005631A:A11
2488	993.B06.sp6:186528	VO	M00005632C:D06
2489	993.D06.sp6:186552	VNO	
2490	993.E06.sp6:186564	VO	M00005636C:D11
2491	993.F06.sp6:186576	VO	M00005637B:D12
2492	993.G06.sp6:186588	VNO	
2493	993.H06.sp6:186600	VNO	
2494	993.A07.sp6:186517	VO	M00005642B:C03
2495	993.B07.sp6:186529	VO	M00005645D:F08
2496	993.C07.sp6:186541	VNO	
2497	993.D07.sp6:186553	VNO	
2498	993.E07.sp6:186565	VO	M00005647D:D09
2499	993.F07.sp6:186577	VO	M00005655B:C02
2500	993.G07.sp6:186589	VNO	
2501	993.H07.sp6:186601	VO	M00005703A:C08
2502	993.A08.sp6:186518	VNO	
2503	993.D08.sp6:186554	VO	M00005710A:C08
2504	993.E08.sp6:186566	VO	M00005720A:D03
2505	993.F08.sp6:186578	VO	M00005720B:D09
2506	993.G08.sp6:186590	VNO	
2507	993.H08.sp6:186602	VO	M00005722D:G03
2508	993.A09.sp6:186519	VO	M00005743B:F02
2509	993.B09.sp6:186531	VO	M00005762D:A01
2510	993.C09.sp6:186543	VO	M00005763B:H09

SEQ ID NO:	Sample Name	Overlap	Clone Name
2511	993.F09.sp6:186579	VO	M00005783A:C05
2512	993.G09.sp6:186591	VO	M00005810C:D04
2513	993.H09.sp6:186603	VO	M00005812C:F10
2514	993.A10.sp6:186520	VO	M00005813D:F06
2515	993.C10.sp6:186544	VO	M00005818C:E08
2516	993.D10.sp6:186556	VO	M00005818C:G01
2517	993.E10.sp6:186568	VO	M00006576D:F11
2518	993.G10.sp6:186592	VO	M00006581C:D02
2519	993.H10.sp6:186604	VO	M00006581D:H08
2520	993.A11.sp6:186521	VNO	
2521	993.B11.sp6:186533	VO	M00006582D:E05
2522	993.E11.sp6:186569	VO	M00006594A:E08
2523	993.F11.sp6:186581	VO	M00006594D:F09
2524	993.H11.sp6:186605	VO	M00006596D:H04
2525	993.A12.sp6:186522	VO	M00006601C:A07
2526	993.B12.sp6:186534	VO	M00006601C:E06
2527	993.C12.sp6:186546	VO	M00006601D:F04
2528	993.D12.sp6:186558	VO	M00006604C:H10
2529	993.E12.sp6:186570	VO	M00006607B:E03
2530	993.F12.sp6:186582	VO	M00006607B:F04
2531	993.G12.sp6:186594	VO	M00006609A:G10
2532	1010.A01.sp6:189937	VO	M00022495C:G05
2533	1010.B01.sp6:189947	VO	M00022498C:C08
2534	1010.C01.sp6:189957	VO	M00022504B:E03
2535	1010.D01.sp6:189967	VO	M00022505D:A12
2536	1010.E01.sp6:189976	VO	M00022509D:F06
2537	1010.F01.sp6:189985	VNO	
2538	1010.G01.sp6:189994	VO	M00022515D:C04
2539	1010.H01.sp6:190003	VO	M00022527A:E05
2540	1010.A02.sp6:189938	VO	M00022527D:B03
2541	1010.B02.sp6:189948	VO	M00022531B:D07
2542	1010.C02.sp6:189958	VO	M00022535D:B11
2543	1010.D02.sp6:189968	VO	M00022535D:C04
2544	1010.E02.sp6:189977	VO	M00022536B:B04
2545	1010.G02.sp6:189995	VO	M00022551A:G03
2546	1010.H02.sp6:190004	VO	M00022556B:C04
2547	1010.A03.sp6:189939	VO	M00022556B:G02
2548	1010.B03.sp6:189949	VNO	
2549	1010.C03.sp6:189959	VO	M00022562C:H10
2550	1010.D03.sp6:189969	VNO	
2551	1010.E03.sp6:189978	VO	M00022578B:G05
2552	1010.F03.sp6:189987	VO	M00022578C:B07
2553	1010.G03.sp6:189996	VO	M00022578D:A08

SEQ ID NO:	Sample Name	Overlap	Clone Name
2554	1010.H03.sp6:190005	VO	M00022578D:F03
2555	1010.A04.sp6:189940	VNO	
2556	1010.B04.sp6:189950	VO	M00022583B:E05
2557	1010.C04.sp6:189960	VO	M00022587C:G04
2558	1010.D04.sp6:189970	VO	M00022594B:H12
2559	1010.E04.sp6:189979	VO	M00022597B:F11
2560	1010.F04.sp6:189988	VO	M00022598A:F11
2561	1010.G04.sp6:189997	VNO	
2562	1010.H04.sp6:190006	VO	M00022599D:E07
2563	1010.A05.sp6:189941	VO	M00022600C:A06
2564	1010.B05.sp6:189951	VO	M00022604B:C11
2565	1010.C05.sp6:189961	VO	M00022607B:A04
2566	1010.D05.sp6:189971	VO	M00022613D:C04
2567	1010.E05.sp6:189980	VO	M00022651D:C06
2568	1010.F05.sp6:189989	VNO	
2569	1010.G05.sp6:189998	VNO	
2570	1010.H05.sp6:190007	VO	M00022666B:E12
2571	1010.A06.sp6:189942	VO	M00022666C:H11
2572	1010.B06.sp6:189952	VNO	
2573	1010.C06.sp6:189962	VO	M00022681C:H02
2574	1010.D06.sp6:189972	VO	M00022682A:F12
2575	1010.E06.sp6:189981	VO	M00022685A:F11
2576	1010.F06.sp6:189990	VO	M00022698C:E06
2577	1010.G06.sp6:189999	VO	M00022701B:B12
2578	1010.H06.sp6:190008	VO	M00022708A:C08
2579	1010.A07.sp6:189943	VO	M00022708D:G10
2580	1010.B07.sp6:189953	VO	M00022716D:D08
2581	1010.C07.sp6:189963	VNO	
2582	1010.D07.sp6:189973	VO	M00022725C:B03
2583	1010.E07.sp6:189982	VO	M00022725C:E09
2584	1010.F07.sp6:189991	VO	M00022726A:A06
2585	1010.G07.sp6:190000	VNO	
2586	1010.H07.sp6:190009	VNO	
2587	1010.A08.sp6:189944	VO	M00022730A:E04
2588	1010.B08.sp6:189954	VNO	
2589	1010.C08.sp6:189964	VO	M00022735B:B01
2590	1010.D08.sp6:189974	VO	M00022737A:C08
2591	1010.E08.sp6:189983	VNO	
2592	1010.F08.sp6:189992	VO	M00022745B:G02
2593	1010.G08.sp6:190001	VO	M00022763A:E10
2594	1010.H08.sp6:190010	VO	M00022824C:H11
2595	1010.B09.sp6:189955	VO	M00022835C:E06
2596	1010.C09.sp6:189965	VO	M00022854D:H07

SEQ ID NO:	Sample Name	Overlap	Clone Name
2597	1010.D09.sp6:189975	VO	M00022856A:D02
2598	1010.E09.sp6:189984	VNO	
2599	1010.F09.sp6:189993	VO	M00022856B:F04
2600	1010.G09.sp6:190002	VO	M00022856C:B11
2601	1010.H09.sp6:190011	VO	M00022893C:H11
2602	1010.A10.sp6:189946	VO	M00022897A:F04
2603	1010.B10.sp6:189956	VO	M00022900D:E08
2604	1010.C10.sp6:189966	VO	M00022900D:G03
2605	019.C4.sp6:128426	VO	M00004190A:A09
2606	774.C8.sp6:162530	VO	M00004190A:A09
2607	1036.E07.sp6:188943	VO	M00004190A:A09
2608	019.E11.sp6:128457	VO	M00005817D:E12
2609	993.B10.sp6:186532	VO	M00005817D:E12
2610	019.G5.sp6:128475	VO	M00006927C:F12

Table 1C

SEQ ID NO:	Sequence Name	THC Accession No.
2611	RTA00000587F.p.24.1.Seq	THC226834
2612	RTA00000629F.l.02.1.Seq	THC210324
2613	RTA00000623F.n.17.1.Seq	THC208388
2614	RTA00000593F.i.08.2.Seq	H91190
2615	RTA00000622F.b.03.1.Seq	AA554045
2616	RTA00000618F.e.06.1.Seq	THC226692
2617	RTA00000592F.o.02.1.Seq	AA099789
2618	RTA00000618F.c.04.1.Seq	THC222808
2619	RTA00000590F.i.01.1.Seq	THC173163
2620	RTA00000606F.o.14.1.Seq	THC223717
2621	RTA00000626F.d.07.1.Seq	THC234888
2622	RTA00000587F.l.08.1.Seq	THC104384
2623	RTA00000586F.a.13.1.Seq	THC140691
2624	RTA00000617F.a.17.1.Seq	THC221850
2625	RTA00000615F.b.23.1.Seq	THC205191
2626	RTA00000632F.f.10.1.Seq	N39216
2627	RTA00000607F.o.13.2.Seq	THC233619
2628	RTA00000622F.c.12.1.Seq	THC118482
2629	RTA00000625F.b.07.1.Seq	THC223154
2630	RTA00000587F.j.01.1.Seq	H63018
2631	RTA00000608F.i.15.1.Seq	THC216448
2632	RTA00000592F.j.06.1.Seq	THC148215
2633	RTA00000589F.b.14.1.Seq	THC158020
2634	RTA00000633F.g.19.1.Seq	THC202541
2635	RTA00000620F.o.07.1.Seq	THC155200
2636	RTA00000586F.p.01.1.Seq	AA558590
2637	RTA00000630F.l.10.1.Seq	THC204748
2638	RTA00000626F.c.13.1.Seq	AA159259
2639	RTA00000591F.m.06.1.Seq	THC227858
2640	RTA00000630F.i.11.1.Seq	THC228806
2641	RTA00000621F.h.08.1.Seq	THC163604
2642	RTA00000589F.d.10.1.Seq	THC177076
2643	RTA00000597F.p.01.1.Seq	THC210746
2644	RTA00000619F.c.13.1.Seq	R57955
2645	RTA00000607F.c.07.2.Seq	THC208762
2646	RTA00000595F.b.02.1.Seq	THC233682
2647	RTA00000631F.h.04.1.Seq	THC223281
2648	RTA00000596F.p.18.1.Seq	THC197103
2649	RTA00000586F.o.13.1.Seq	THC222729
2650	RTA00000610F.p.17.1.Seq	EST19015
2651	RTA00000596F.c.05.1.Seq	EST72617

SEQ ID NO:	Sequence Name	THC Accession No.
2652	RTA00000632F.j.19.1.Seq	THC90741
2653	RTA00000607F.e.23.2.Seq	AA639216
2654	RTA00000628F.b.19.1.Seq	THC118075
2655	RTA00000609F.d.13.1.Seq	THC195579
2656	RTA00000621F.k.03.1.Seq	EST70278
2657	RTA00000592F.l.04.1.Seq	THC91941
2658	RTA00000592F.k.09.1.Seq	THC229803
2659	RTA00000622F.e.17.1.Seq	R57425
2660	RTA00000628F.g.13.1.Seq	THC176706
2661	RTA00000592F.k.23.1.Seq	THC232202
2662	RTA00000609F.m.04.2.Seq	AA507611
2663	RTA00000626F.b.04.1.Seq	EST69420
2664	RTA00000591F.m.01.1.Seq	H41850
2665	RTA00000608F.n.23.1.Seq	THC214886
2666	RTA00000583F.d.19.1.Seq	THC229251
2667	RTA00000621F.p.15.1.Seq	THC212450
2668	RTA00000583F.n.05.1.Seq	AA252468
2669	RTA00000597F.f.17.1.Seq	THC219322
2670	RTA00000606F.l.10.1.Seq	THC225232
2671	RTA00000618F.n.14.1.Seq	THC216591
2672	RTA00000612F.h.05.3.Seq	THC158250
2673	RTA00000619F.a.24.1.Seq	AA437370
2674	RTA00000617F.k.13.1.Seq	AA244445
2675	RTA00000623F.h.07.1.Seq	THC212330
2676	RTA00000620F.e.01.1.Seq	THC167493
2677	RTA00000620F.h.10.1.Seq	THC232456
2678	RTA00000589F.e.21.2.Seq	THC208239
2679	RTA00000626F.b.22.1.Seq	THC225644
2680	RTA00000620F.i.16.1.Seq	AA536090
2681	RTA00000613F.c.17.1.Seq	THC92470
2682	RTA00000621F.c.12.1.Seq	THC156244
2683	RTA00000618F.b.17.1.Seq	THC209838
2684	RTA00000585F.d.16.1.Seq	THC211870
2685	RTA00000592F.a.06.1.Seq	THC233200
2686	RTA00000583F.p.08.1.Seq	THC196844
2687	RTA00000622F.h.21.1.Seq	EST12698
2688	RTA00000591F.h.03.1.Seq	THC213771
2689	RTA00000620F.g.22.1.Seq	THC224063
2690	RTA00000588F.l.20.2.Seq	R84876
2691	RTA00000614F.a.20.1.Seq	R84876
2692	RTA00000611F.n.14.3.Seq	THC200742
2693	RTA00000619F.f.23.1.Seq	THC227573

SEQ ID NO:	Sequence Name	THC Accession No.
2694	RTA00000608F.g.24.1.Seq	T93977
2695	RTA00000595F.o.01.2.Seq	EST61392
2696	RTA00000608F.b.23.1.Seq	THC161665
2697	RTA00000606F.o.23.1.Seq	AA464645
2698	RTA00000588F.i.22.3.Seq	THC162216
2699	RTA00000610F.i.13.1.Seq	AA595068
2700	RTA00000608F.b.15.1.Seq	EST11866
2701	RTA00000597F.e.16.1.Seq	N88730
2702	RTA00000610F.h.13.1.Seq	THC195895
2703	RTA00000611F.h.21.2.Seq	EST46722
2704	RTA00000584F.b.06.1.Seq	EST02998
2705	RTA00000584F.b.06.2.Seq	EST02998
2706	RTA00000608F.j.05.1.Seq	EST60433
2707	RTA00000588F.b.03.1.Seq	THC164651

Table 2A: Nearest Neighbor (BlastN vs. Genbank)			
SEQ ID	ACC'N	DESCRIP.	P VALUE
571	L17043	Homo sapiens pregnancy-specific beta-1-glycoprotein-11 gene.	1.00E-12
578	M18864	Rat bone protein I (BP-I) mRNA, partial cds.	7.00E-30
609	L13838	Human genomic sequence from chromosome 13, clone ch13lambdacDNA17-18.	4.00E-36
618	U09646	Human carnitine palmitoyltransferase II precursor	1.00E-34
627	U72621	Human LOT1 mRNA, complete cds	1.00E-43
629	M20910	Human 7S L gene, complete.	1.00E-35
636	Z48950	H.sapiens hH3.3B gene for histone H3.3	4.00E-36
639	X00247	Human translocated c-myc gene in Raji Burkitt lymphoma cells	3.00E-44
643	D80007	Human mRNA for KIAA0185 gene, partial cds	7.00E-52
646	U14967	Human ribosomal protein L21 mRNA, complete cds.	2.00E-42
649	M13934	Human ribosomal protein S14 gene, complete cds.	4.00E-45
652	NM_003902.1	Homo sapiens far upstream element binding protein (FUBP) mRNA > :: gb|U05040|HSU05040 Human FUSE binding protein mRNA, complete cds.	1.00E-54
657	L41142	Homo sapiens signal transducer and activator of transcription (STAT5) mRNA, complete cds.	2.00E-62
665	Z12112	pWE15A cosmid vector DNA	2.00E-52
667	Z54386	H.sapiens CpG island DNA genomic Mse1 fragment, clone 10g3, forward read cpg10g3.ft1a	7.00E-48
668	X80333	M.musculus rab18 mRNA	2.00E-52
669	X52126	Human alternatively spliced c-myb mRNA	1.00E-64
671	L26247	Homo sapiens sui1iso1 mRNA, complete cds.	3.00E-54
676	NM_001736.1	Homo sapiens complement component 5 receptor 1 C5a anaphylatoxin receptor mRNA, complete cds.	4.00E-56
677	Z50798	G.gallus mRNA for p52	4.00E-55
679	AB002368	Human mRNA for KIAA0370 gene, partial cds	2.00E-58
681	M26697	Human nucleolar protein (B23) mRNA, complete cds.	4.00E-48
683	D42087	Human mRNA for KIAA0118 gene, partial cds	4.00E-56
693	D50734	Rat mRNA of antizyme inhibitor, complete cds	2.00E-50
697	X02344	Homo sapiens beta 2 gene	1.00E-67
698	NM_001067.1	Homo sapiens topoisomerase (DNA) II alpha topoisomerase II (top2) mRNA, complete cds.	7.00E-63
701	U36309	Gallus gallus rhoGap protein mRNA, complete cds	3.00E-62
703	NM_002842.1	Homo sapiens protein tyrosine phosphatase, receptor type, H (PTPRH) mRNA > :: dbj|D15049|HUMSAP1C Human mRNA for protein tyrosine phosphatase	2.00E-81
707	U47322	Cloning vector DNA, complete sequence.	1.00E-63

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
714	NM_001190.1	Homo sapiens branched chain aminotransferase 2. mitochondrial (BCAT2) mRNA > :: gb|U68418|HSU68418 Human branched chain aminotransferase precursor (BCATm) mRNA. nuclear gene encoding mitochondrial protein. complete cds	4.00E-67
718	S62077	HP1Hs alpha=25 kda chromosomal autoantigen [human. mRNA. 876 nt]	5.00E-68
719	U34991	Human endogenous retrovirus clone c18.4. HERV-H/HERV-E hybrid multiply spliced protease/integrase mRNA. complete cds. and envelope protein mRNA. partial cds	2.00E-61
722	U18671	Human Stat2 gene. complete cds.	4.00E-77
723	L18964	Human protein kinase C iota isoform (PRKCI) mRNA. complete cds.	4.00E-68
724	D29956	Human mRNA for KIAA0055 gene. complete cds	6.00E-70
725	M77140	H.sapiens pro-galanin mRNA. 3' end.	2.00E-72
728	U51432	Homo sapiens nuclear protein Skip mRNA. complete cds	1.00E-75
729	M84334	Macacca mulatta hnRNP A1-gamma isoform mRNA. complete cds.	5.00E-50
730	NM_002592.1	Homo sapiens proliferating cell nuclear antigen (PCNA) mRNA > :: gb|M15796|HUMCYL Human cyclin protein gene. complete cds.	1.00E-74
731	M88458	Human ELP-1 mRNA sequence.	4.00E-76
732	U44940	Mus musculus quaking type I (QKI) mRNA. complete cds	2.00E-69
733	D17577	Mouse mRNA for kinesin-like protein (Kif1b). complete cds	2.00E-71
734	U18920	Human chromosome 17q12-21 mRNA. clone pOV-3. partial cds.	2.00E-72
736	M21188	Human insulin-degrading enzyme (IDE) mRNA. complete cds.	7.00E-82
737	U49058	Rattus norvegicus CTD-binding SR-like protein rA4 mRNA. partial cds	1.00E-67
739	D10630	Mus musculus mRNA for zinc finger protein. complete cds. clone:CTfin51	4.00E-76
740	U29156	Mus musculus eps15R mRNA. complete cds.	3.00E-84
741	Y08135	M.musculus mRNA for ASM-like phosphodiesterase 3a	1.00E-86
742	U90567	Gallus gallus glutamine rich protein mRNA. partial cds	5.00E-58
743	U58280	Mus musculus second largest subunit of RNA polymerase I (RPA2) mRNA. complete cds	4.00E-77
744	S79539	Pat-12=Pat-12 product [mice. embryonic stem ES cells. mRNA. 2781 nt]	9.00E-84
745	D30666	Rat mRNA for brain acyl-CoA synthetase II. complete cds	2.00E-89
746	U29156	Mus musculus eps15R mRNA. complete cds.	2.00E-92

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
748	U36909	Bos taurus Rho-associated kinase mRNA. complete cds	e-104
749	L36315	Mus musculus (clone pMLZ-1) zinc finger protein	e-105
750	X80169	M.musculus mRNA for 200 kD protein	e-106
751	X83577	M.musculus mRNA for K-glypican	e-107
1060	Z95437	Human DNA sequence from cosmid A1 on chromosome 6 contains ESTs. HERV like retroviral sequence	8.00E-21
1112	X69907	H.sapiens gene for mitochondrial ATP synthase c subunit (P1 form)	6.00E-07
1125	M19390	Bovine interstitial retinol binding protein	8.00E-31
1156	U19247	Homo sapiens interferon-gamma receptor alpha chain gene. exon 7 and complete cds	7.00E-41
1170	U20239	Mus musculus fibrosin mRNA. partial cds	5.00E-38
1171	D26361	Human mRNA for KIAA0042 gene. complete cds	2.00E-41
1195	NM_000694 .1	Homo sapiens aldehyde dehydrogenase 7 (ALDH7) mRNA > :: gb|U10868|HSU10868 Human aldehyde dehydrogenase ALDH7 mRNA. complete cds.	1.00E-37
1196	U84404	Human E6-associated protein E6-AP/ubiquitin-protein ligase (UBE3A) mRNA. alternatively spliced. complete cds	1.00E-46
1203	U51714	Human GPI protein p137 mRNA. partial sequence. 3'-UTR.	9.00E-53
1204	U58884	Mus musculus SH3-containing protein SH3P7 mRNA. complete cds. similar to Human Drebrin	2.00E-49
1210	X79067	H.sapiens ERF-1 mRNA 3' end	2.00E-72
1212	U00946	Human clone A9A2BRB5 (CAC)n/(GTG)n repeat-containing mRNA	3.00E-54
1217	D11078	Homo sapiens RGH2 gene. retrovirus-like element	6.00E-49
1219	U05989	Rattus norvegicus clone par-4 induced by effectors of apoptosis mRNA. complete cds.	3.00E-64
1220	U13185	Cloning vector pbetagal-Enhancer. complete sequence.	3.00E-52
1222	D87443	Human mRNA for KIAA0254 gene. complete cds	8.00E-63
1225	U19867	Cloning vector pSPL3. exon splicing vector. complete sequence. HIV envelope protein gp160 and beta-lactamase. complete cds.	7.00E-72
1227	U04817	Human protein kinase PITSLRE alpha 2-3 mRNA. complete cds.	4.00E-57
1230	U03687	Photinus pyralis modified luciferase gene. complete cds. and pUC18 derived vector.	3.00E-62
1231	U27196	Gallus gallus zinc finger protein (Fzf-1) mRNA. complete cds.	1.00E-66
1235	X53586	Human mRNA for integrin alpha 6	2.00E-71
1236	J05016	Human (clone pA3) protein disulfide isomerase related protein (ERp72) mRNA. complete cds.	3.00E-67

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1237	M86752	Human transformation-sensitive protein (IEF SSP 3521) mRNA, complete cds.	1.00E-66
1239	L19437	Human transaldolase mRNA containing transposable element, complete cds	5.00E-70
1241	X90857	H.sapiens mRNA for -14 gene, containing globin regulatory element	1.00E-74
1242	NM_003980.1	Homo sapiens microtubule associated protein 7 mRNA	9.00E-76
1245	U17901	Rattus norvegicus phospholipase A-2-activating protein (plap) mRNA, complete cds.	3.00E-75
1246	S80632	threonine, tyrosine phosphatase [human, brain, mRNA Partial, 1236 nt]	2.00E-69
1247	M76541	Human DNA-binding protein (NF-E1) mRNA, complete cds.	2.00E-80
1248	S55305	14-3-3 protein gamma subtype=putative protein kinase C regulatory protein [rats, brain, mRNA, 3410 nt] > :: dbj|D17447|D17447 Rattus norvegicus mRNA for 14-3-3 protein gamma-subtype, complete cds	7.00E-93
1249	NM_002350.1	Homo sapiens v-yes-1 Yamaguchi sarcoma viral related oncogene homolog (LYN) mRNA > :: gb|M16038|HUMLYN Human lyn mRNA encoding a tyrosine kinase.	3.00E-86
1250	Y10725	M.musculus mRNA for protein kinase KIS	4.00E-68
1251	U89931	Cloning vector pTRE, complete sequence	3.00E-65
1252	Z46386	Bovine herpesvirus type 4 DNA for nonconserved region F (DN599 like strain)	3.00E-73
1253	L77599	Homo sapiens (clone SEL214) 17q YAC (303G8) RNA.	2.00E-69
1255	Y10746	H.sapiens mRNA for protein containing MBD 1	2.00E-79
1256	L77599	Homo sapiens (clone SEL214) 17q YAC (303G8) RNA.	2.00E-71
1257	Z57619	H.sapiens CpG island DNA genomic Mse1 fragment, clone 187a6, forward read cpg187a6.ft1b	7.00E-72
1258	U48807	Human MAP kinase phosphatase (MKP-2) mRNA, complete cds	3.00E-76
1260	M27444	Bos taurus (clone pTKD7) dopamine and cyclic AMP-regulated neuronal phosphoprotein (DARPP-32) mRNA, complete cds.	4.00E-76
1261	U37150	Bos taurus peptide methionine sulfoxide reductase (msrA) mRNA, complete cds	5.00E-78
1262	U02435	Cloning vector pSVbeta, complete sequence	1.00E-77
1263	U09662	Cloning vector pSEAP-Enhancer, complete sequence	4.00E-79
1264	M99566	sCos cloning vector SfiI containing bacteriophage promoters and flanking restriction sites in sCos vectors.	1.00E-79
1266	Z12112	pWE15A cosmid vector DNA	4.00E-80

Table 2A: Nearest Neighbor (BlastN vs. Genbank)			
SEQ ID	ACC'N	DESCRIP.	P VALUE
1267	U55387	Cricetulus griseus SL15 mRNA, complete cds	2.00E-82
1269	L14684	Rattus norvegicus nuclear-encoded mitochondrial elongation factor G mRNA, complete cds.	2.00E-91
1270	U49057	Rattus norvegicus CTD-binding SR-like protein rA9 mRNA, complete cds	7.00E-93
1271	U57368	Mus musculus EGF repeat transmembrane protein mRNA, complete cds.	4.00E-97
1272	AF000938	Mus musculus RNA polymerase I largest subunit	8.00E-94
1274	X80169	M.musculus mRNA for 200 kD protein	e-102
1275	U09874	Mus musculus SKD3 mRNA, complete cds.	e-105
1276	D78020	Rat mRNA for NFI-A4, partial cds	e-108
1515	Z73360	Human DNA sequence from cosmid 92M18, BRCA2 gene region chromosome 13q12-13	9.00E-22
1522	X62078	H.sapiens mRNA for GM2 activator protein	7.00E-72
1523	X85750	H.sapiens mRNA for transcript associated with monocyte to macrophage differentiation	2.00E-50
1525	X03473	Human gene for histone H1(0)	1.00E-67
1535	X64411	R.norvegicus mRNA for 100 kDa protein	1.00E-54
1538	X13345	Human gene for plasminogen activator inhibitor 1	2.00E-59
1542	D86971	Human mRNA for KIAA0217 gene, partial cds	7.00E-83
1543	NM_001859.1	Homo sapiens solute carrier family 31 gb|U83460|HSU83460 Human high-affinity copper uptake protein (hCTR1) mRNA, complete cds	7.00E-72
1544	X68194	H.sapiens h-Sp1 mRNA	5.00E-57
1545	AB002326	Human mRNA for KIAA0328 gene, partial cds	3.00E-74
1548	D31762	Human mRNA for KIAA0057 gene, complete cds	3.00E-85
1550	X58472	Mouse KIN17 mRNA for kin17 protein	2.00E-57
1551	U13185	Cloning vector pbetagal-Enhancer, complete sequence.	2.00E-79
1552	U55939	Expression vector pVP-Nco, complete sequence.	1.00E-76
1553	D87671	Rattus norvegicus mRNA for TIP120, complete cds	1.00E-87
1554	U25691	Mus musculus lymphocyte specific helicase mRNA, complete cds	4.00E-86
1555	U55939	Expression vector pVP-Nco, complete sequence.	5.00E-79
1556	Z12112	pWE15A cosmid vector DNA	2.00E-79
1557	U13185	Cloning vector pbetagal-Enhancer, complete sequence.	2.00E-79
1558	U13185	Cloning vector pbetagal-Enhancer, complete sequence.	6.00E-80
1559	Z12112	pWE15A cosmid vector DNA	6.00E-80
1560	U09661	Cloning vector pSEAP-Control, complete sequence	6.00E-80
1561	U36909	Bos taurus Rho-associated kinase mRNA, complete cds	2.00E-90
1562	L36610	Mus musculus protein synthesis initiation factor 4A (eIF-4A) gene, exons 5, 6, 7, 8, and 9.	2.00E-71

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1563	S79463	M-Sema F=a factor in neural network development	1.00E-85
1564	U35312	Mus musculus nuclear receptor co-repressor mRNA, complete cds	1.00E-98
1571	L32977	Homo sapiens (clone f17252) ubiquinol cytochrome c reductase Rieske iron-sulphur protein (UQCRFS1) gene, exon 2	0
1576	S78454	Mus musculus metal response element DNA-binding protein M96 mRNA, complete cds	0
1586	M88458	Human ELP-1 mRNA sequence.	0
1622	S77512	LAMB2=laminin beta 2 chain [human, placenta, mRNA, 5642 nt]	e-131
1624	X53305	H.sapiens mRNA for stathmin	0
1625	J03591	Human ADP/ATP translocase mRNA, 3' end, clone pHAT3.	0
1630	L18964	Human protein kinase C iota isoform (PRKCI) mRNA, complete cds.	2E-67
1640	D29956	Human mRNA for KIAA0055 gene, complete cds	0
1649	M26697	Human nucleolar protein (B23) mRNA, complete cds.	e-149
1669	U47322	Cloning vector DNA, complete sequence.	4E-65
1689	NM_002079.1	Homo sapiens glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1) aspartate aminotransferase mRNA, complete cds.	0
1693	U55939	Expression vector pVP-Nco, complete sequence.	2E-70
1694	D80007	Human mRNA for KIAA0185 gene, partial cds	0
1695	NM_001904.1	Homo sapiens catenin (cadherin-associated protein), beta 1 (88kD) (CTNNB1) mRNA > :: emb|X87838|HSRNABECA H.sapiens mRNA for beta-catenin	e-108
1701	U19867	Cloning vector pSPL3, exon splicing vector, complete sequence, HIV envelope protein gp160 and beta-lactamase, complete cds.	1E-44
1702	M31061	Human ornithine decarboxylase gene, complete cds.	0
1721	Z96177	H.sapiens telomeric DNA sequence, clone 10QTEL040, read 10QTELOO040.seq	2E-70
1722	NM_001904.1	Homo sapiens catenin (cadherin-associated protein), beta 1 (88kD) (CTNNB1) mRNA > :: emb|X87838|HSRNABECA H.sapiens mRNA for beta-catenin	e-176
1758	X83577	M.musculus mRNA for K-glypican	0
1761	S79539	Pat-12=Pat-12 product [mice, embryonic stem ES cells, mRNA, 2781 nt]	e-176
1773	L38951	Homo sapiens importin beta subunit mRNA, complete cds	1E-78

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1776	NM_003902.1	Homo sapiens far upstream element binding protein (FUBP) mRNA > :: gb|U05040|HSU05040 Human FUSE binding protein mRNA. complete cds.	0
1791	L08783	BlueScribe M13 Plus cloning vector.	0
1809	U86751	Human nucleolar fibrillar center protein (ASE-1) mRNA. complete cds	8E-95
1817	M21188	Human insulin-degrading enzyme (IDE) mRNA. complete cds.	e-134
1831	NM_001614.1	Homo sapiens actin, gamma 1 (ACTG1) mRNA > :: emb|X04098|HSACTCGR Human mRNA for cytoskeletal gamma-actin	0.00E+00
1836	U12404	Human Csa-19 mRNA. complete cds.	0
1837	X79236	H.sapiens rps26 gene	e-145
1838	NM_003313.1	Homo sapiens tissue specific transplantation antigen P35B (TSTA3) mRNA > :: gb|U58766|HSU58766 Human FX protein mRNA. complete cds	0
1839	M27436	Human tissue factor gene. complete cds. with a Alu repetitive sequence in the 3' untranslated region. > :: gb|I05724| Sequence 12 from Patent EP 0278776	e-121
1849	X79067	H.sapiens ERF-1 mRNA 3' end	0
1850	NM_003017.1	Homo sapiens splicing factor. arginine/serine-rich 3 (SFRS3) mRNA > :: gb|L10838|HUMSRP20 Homo sapiens SR protein family. pre-mRNA splicing factor (SRp20) mRNA. complete cds.	e-135
1857	U48807	Human MAP kinase phosphatase (MKP-2) mRNA. complete cds	0.00E+00
1858	U48807	Human MAP kinase phosphatase (MKP-2) mRNA. complete cds	0.00E+00
1873	U04817	Human protein kinase PITSLRE alpha 2-3 mRNA. complete cds.	8.00E-53
1876	U18297	Human MST1 (MST1) mRNA. complete cds.	0.00E+00
1877	NM_001859.1	Homo sapiens solute carrier family 31 gb|U83460|HSU83460 Human high-affinity copper uptake protein (hCTR1) mRNA. complete cds	0
1889	X70272	single stranded replicative centromeric Saccharomyces cerevisiae /E. coli shuttle vector	3.00E-76
1897	L26050	Human mitochondrial 2,4-dienoyl-CoA reductase mRNA, complete cds.	0.00E+00
1899	X06747	Human hnRNP core protein A1	e-157
1901	M64571	Human microtubule-associated protein 4 mRNA. complete cds.	0.00E+00

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1908	X65322.1	Cloning vector pCAT-Basic	9.00E-53
1913	NM_002654 .1	Homo sapiens pyruvate kinase, muscle (PKM2) mRNA > :: gb|M23725|HUMPKM2L Human M2-type pyruvate kinase mRNA, complete cds.	e-159
1916	U49352	Human liver 2,4-dienoyl-CoA reductase mRNA, complete cds	2.00E-71
1926	D31889	Human mRNA for KIAA0072 gene, partial cds > :: gb|G27027|G27027 human STS SHGC-31585.	e-167
1941	U43944	Human breast cancer cytosolic NADP(+)-dependent malic enzyme mRNA, partial cds	1.00E-89
1971	U83659	Human multidrug resistance-associated protein homolog (MRP3) mRNA, partial cds	3.00E-85
1996	M33519	Human HLA-B-associated transcript 3 (BAT3) mRNA, complete cds.	3.00E-84
1997	U55387	Cricetulus griseus SL15 mRNA, complete cds	e-150
2018	L36315	Mus musculus (clone pMLZ-1) zinc finger protein	e-162
2025	NM_003902 .1	Homo sapiens far upstream element binding protein (FUBP) mRNA > :: gb|U05040|HSU05040 Human FUSE binding protein mRNA, complete cds.	e-175
2032	X56932	H.sapiens mRNA for 23 kD highly basic protein	0.00E+00
2039	X98654	H.sapiens mRNA for DRES9 protein	9.00E-97
2050	S62077	HP1Hs alpha=25 kda chromosomal autoantigen [human, mRNA, 876 nt]	4.00E-68
2057	M23619	Human HMG-I protein isoform mRNA (HMGI gene), clone 6A.	e-117
2077	NM_003217 .1	Homo sapiens testis enhanced gene transcript	4E-99
2092	U18671	Human Stat2 gene, complete cds.	0.00E+00
2096	D43636	Human mRNA for KIAA0096 gene, partial cds	0
2098	NM_002734 .1	Homo sapiens protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1) (PRKAR1A) mRNA > :: gb|M33336|HUMCAMPPK Human cAMP-dependent protein kinase type I-alpha subunit	0
2099	U72621	Human LOT1 mRNA, complete cds	0.00E+00
2112	NM_003902 .1	Homo sapiens far upstream element binding protein (FUBP) mRNA > :: gb|U05040|HSU05040 Human FUSE binding protein mRNA, complete cds.	0.00E+00
2118	L41142	Homo sapiens signal transducer and activator of transcription (STAT5) mRNA, complete cds.	0.00E+00
2119	Z48950	H.sapiens hH3.3B gene for histone H3.3	0.00E+00
2153	L09260	Human (chromosome 3p25) membrane protein mRNA.	e-100
2158	X65304.1	Cloning vector pGEM-3Z	e-173

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
2163	NM_003358.1	Homo sapiens UDP-glucose ceramide glucosyltransferase (UGCG) mRNA > :: dbj|D50840|HUMCGA Homo sapiens mRNA for ceramide glucosyltransferase. complete cds > :: dbj|E12454|E12454 cDNA encoding human ceramide glucosyltransferase	e-141
2179	M95605	Bos taurus S-adenosylmethionine decarboxylase	e-175
2180	M12623	Human non-histone chromosomal protein HMG-17 mRNA. complete cds.	0.00E+00
2181	U79143	Human phosphoinositide 3'-hydroxykinase p110-alpha subunit mRNA. complete cds	0.00E+00
2192	K01906	Human fetal liver c-myc proto-oncogene. exon 3 and flanks.	e-165
2194	X74870	H.sapiens gene for RNA pol II largest subunit. exons 23-29	e-161
2235	L16991	Human thymidylate kinase (CDC8) mRNA. complete cds.	0.00E+00
2257	L08783	BlueScribe M13 Plus cloning vector.	0.00E+00
2276	NM_002245.1	Homo sapiens potassium inwardly-rectifying channel. subfamily K. member 1 (KCNK1) mRNA > :: gb|U33632|HSU33632 Human two P-domain K+ channel TWIK-1 mRNA. complete cds.	0
2278	D50734	Rat mRNA of antizyme inhibitor. complete cds	e-157
2279	U26401	Human galactokinase (galK) mRNA. complete cds. >	0.00E+00
2285	U49058	Rattus norvegicus CTD-binding SR-like protein rA4 mRNA. partial cds	e-138
2287	X65306.1	Cloning vector pGEM-3Zf(+)	e-116
2299	NM_001172.1	Homo sapiens arginase. type II (ARG2) mRNA > :: gb|U82256|HSU82256 Homo sapiens arginase type II mRNA. complete cds	e-127
2309	M25160	Human Na.K-ATPase beta subunit (ATP1B) gene. exons 3 through 6.	0.00E+00
2315	Y08736	H.sapiens vegf gene. 3'UTR	1.00E-78
2320	U13737	Human cysteine protease CPP32 isoform alpha mRNA. complete cds.	0.00E+00
2323	Y08135	M.musculus mRNA for ASM-like phosphodiesterase 3a	e-148
2324	Y08135	M.musculus mRNA for ASM-like phosphodiesterase 3a	0
2328	NM_001677.1	Homo sapiens ATPase. Na+/K+ transporting. beta 1 polypeptide (ATP1B1) mRNA > :: emb|X03747|HSATPBR Human mRNA for Na/K-ATPase beta subunit	1E-77
2337	Y08135	M.musculus mRNA for ASM-like phosphodiesterase 3a	e-168
2364	U54778	Human 14-3-3 epsilon mRNA. complete cds	1E-67
2365	Y08135	M.musculus mRNA for ASM-like phosphodiesterase 3a	0

Table 2A: Nearest Neighbor (BlastN vs. Genbank)			
SEQ ID	ACC'N	DESCRIP.	P VALUE
2368	NM_001172.1	Homo sapiens arginase. type II (ARG2) mRNA > :: gb|U82256|HSU82256 Homo sapiens arginase type II mRNA. complete cds	e-127
2385	AB002293	Human mRNA for KIAA0295 gene. partial cds	0
2394	M21188	Human insulin-degrading enzyme (IDE) mRNA. complete cds.	2E-81
2425	D87466	Human mRNA for KIAA0276 gene. partial cds	1E-97
2429	U58884	Mus musculus SH3-containing protein SH3P7 mRNA. complete cds. similar to Human Drebrin	4E-96
2441	AB005216	Homo sapiens mRNA for Nck. Ash and phospholipase C gamma binding protein NAP4. partial cds	0
2442	NM_001960.1	Homo sapiens eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein) (EEF1D) mRNA > :: emb|Z21507|HSEF1DELA H.sapiens EF-1delta gene encoding human elongation factor-1-delta	0.00E+00
2444	M92449	Human LTR mRNA. 3' end of coding region and 3' flank.	e-143
2452	NM_003350.1	Homo sapiens ubiquitin-conjugating enzyme E2 variant 2 (UBE2V2) mRNA > :: emb|X98091|HSVITDITR H.sapiens mRNA for protein induced by vitamin D	0
2456	U44975	Homo sapiens DNA-binding protein CPBP (CPBP) mRNA, partial cds	5.00E-69
2459	Z84510	H.sapiens flow-sorted chromosome 6 HindIII fragment. SC6pA28B7	4.00E-66
2463	Z48042	H.sapiens mRNA encoding GPI-anchored protein p137	e-172
2497	U32986	Human xeroderma pigmentosum group E UV-damaged DNA binding factor mRNA. complete cds.	0
2515	NM_003419.1	Homo sapiens zinc finger protein 10 (KOX 1) for zinc finger protein	e-129
2520	Y00711	Human mRNA for lactate dehydrogenase B (LDH-B)	0.00E+00
2526	Y10725	M.musculus mRNA for protein kinase KIS	0.00E+00
2543	X62078	H.sapiens mRNA for GM2 activator protein	e-164
2548	NM_001009.1	Homo sapiens ribosomal protein S5 (RPS5) mRNA complete cds.	0.00E+00
2556	U97188	Homo sapiens putative RNA binding protein KOC	1E-86
2575	NM_002852.1	Homo sapiens pentaxin-related gene. rapidly induced by IL-1 beta (PTX3) mRNA > :: emb|X63613|HSPTX3R H.sapiens mRNA for pentaxin (PTX3)	0.00E+00
2578	X67155	H.sapiens mRNA for mitotic kinesin-like protein-1	0.00E+00
2588	M54968	Human K-ras oncogene protein mRNA. complete cds >	e-123
2591	D88687	Homo sapiens mRNA for KM-102-derived reductase-like factor, complete cds	0

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
2593	NM_001436.1	Homo sapiens fibrillarin (FBL) mRNA > :: gb|M59849|HUMFIBAA Human fibrillarin (Hfib1) mRNA, complete cds.	e-103
2595	AB002326	Human mRNA for KIAA0328 gene, partial cds	0.00E+00
2598	M11948	Human promyelocytic leukemia cell mRNA, clones pHH58 and pHH81.	9.00E-84

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
37	4239895	(AB016816) MASL1 [Homo sapiens]	9.00E-54
66	4514653	(AB024057) vascular Rab-GAP/TBC-containing protein [Homo sapiens]	6.00E-55
78	4454524	(AC004841) similar to insulin receptor substrate BAP2; similar to PID:g4126477 [Homo sapiens]	6.00E-22
79	4545264	(AF118240) peroxisomal biogenesis factor 16 [Homo sapiens]	1.00E-45
112	3413938	(AB007963) KIAA0494 protein [Homo sapiens]	3.00E-44
122	4239895	(AB016816) MASL1 [Homo sapiens]	1.00E-47
139	4502371	breast cancer antiestrogen resistance 3 >gi|3237306 (U92715) breast cancer antiestrogen resistance 3 protein [Homo sapiens]	2.00E-44
154	4586880	(AB017114) AD 3 [Homo sapiens]	4.00E-48
157	3327170	(AB014578) KIAA0678 protein [Homo sapiens]	2.00E-51
168	3153241	(AF053004) class I cytokine receptor [Homo sapiens]	2.00E-17
171	4138233	(AJ007780) parp-2 gene [Mus musculus]	2.00E-32
174	3287173	(AJ006266) AND-1 protein [Homo sapiens]	2.00E-42
187	4507145	UNKNOWN >gi|3873216 (AF065485) sorting nexin 4 [Homo sapiens]	8.00E-46
207	4153860	(AC005074) similar to U47321 (PID:g1245146) [Homo sapiens]	4.00E-15
224	3236430	(AF067379) ubiquitin-protein ligase E3-alpha [Mus musculus]	3.00E-35
253	3043696	(AB011158) KIAA0586 protein [Homo sapiens]	1.00E-44
260	4519623	(AB017616) homologous to the yeast YGR163 gene [Mus musculus]	2.00E-54
280	4455035	(AF116238) pseudouridine synthase 1 [Homo sapiens]	4.00E-48
304	3075377	(AC004602) F23487_2 [Homo sapiens]	2.00E-21
306	4505611	poly(A)-specific ribonuclease	7.00E-41
373	1825606	(U88169) similar to molybdoterin biosynthesis MOEB proteins [Caenorhabditis elegans]	2.00E-37
382	4586287	(AB004794) DUF140 [Xenopus laevis]	7.00E-45
396	3941342	(AF043250) mitochondrial outer membrane protein [Homo sapiens] >gi|3941347 (AF043253) mitochondrial outer membrane protein [Homo sapiens] >gi|4105703|gb|AAD02504|	5.00E-40
414	4586844	(AB015633) type II membrane protein	2.00E-46
422	3327078	(AB014532) KIAA0632 protein [Homo sapiens]	6.00E-36
433	3327230	(AB014608) KIAA0708 protein [Homo sapiens]	5.00E-52
472	3372677	(AF061749) tumorous imaginal discs protein Tid56 homolog	7.00E-35
502	4050034	(AF098482) transcriptional coactivator p52 [Homo sapiens]	1.00E-36

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
504	4406632	(AF131801) Unknown [Homo sapiens]	3.00E-21
512	3114828	(AJ005897) JM5 [Homo sapiens]	3.00E-44
530	3766209	(AF071777) IRE1 [Mus musculus]	2.00E-29
561	3043644	(AB011132) KIAA0560 protein [Homo sapiens]	3.00E-43
572	3088575	(AF059531) protein arginine N-methyltransferase 3 [Homo sapiens]	4.00E-46
578	4505891	UNKNOWN >gi|3153235 (AF046889) lysyl hydroxylase isoform 3 [Homo sapiens] >gi|3551836	3.00E-30
590	3114828	(AJ005897) JM5 [Homo sapiens]	1.00E-24
592	3242214	(AJ006778) DRIM protein [Homo sapiens]	2.00E-36
598	4200236	(AL035308) hypothetical protein [Homo sapiens]	8.00E-09
600	3413892	(AB007934) KIAA0465 protein [Homo sapiens]	2.00E-51
635	3043626	(AB011123) KIAA0551 protein [Homo sapiens]	3.00E-31
643	2498864	RRP5 PROTEIN HOMOLOG (KIAA0185) hypothetical protein YM9959.11C of S.cerevisiae. [Homo sapiens]	3.00E-13
670	3402197	(AJ010014) M96A protein [Homo sapiens]	1.00E-21
677	2217964	(Z50798) p52 [Gallus gallus]	7.00E-14
686	3043626	(AB011123) KIAA0551 protein [Homo sapiens]	1.00E-40
697	135470	TUBULIN BETA-5 CHAIN sapiens]	3.00E-21
701	3327056	(AB014521) KIAA0621 protein [Homo sapiens]	2.00E-29
704	4506787	UNKNOWN GTPASE-ACTIVATING-LIKE PROTEIN IQGAP1 (P195) (KIAA0051) protein - human >gi|473931|dbj|BAA06123| (D29640) KIAA0051 [Homo sapiens] >gi|536844 (L33075) ras GTPase-activating-like protein [Homo sapiens]	4.00E-41
709	1350762	60S RIBOSOMAL PROTEIN L6 sapiens]	2.00E-22
713	2687400	(AF035824) vesicle soluble NSF attachment protein receptor [Homo sapiens]	1.00E-23
730	2914385	Chain C, Human Pcna >gi|2914387|pdb|1AXC|E Chain E, Human Pcna	2.00E-27
731	284076	ERD-2-like protein, ELP-1 - human	1.00E-26
733	2497524	KINESIN-LIKE PROTEIN KIF1B mouse >gi|407339|dbj|BAA04503| (D17577) Kif1b [Mus musculus]	9.00E-33
735	3327056	(AB014521) KIAA0621 protein [Homo sapiens]	1.00E-13
736	279567	insulinase (EC 3.4.99.45) - human	2.00E-26
738	487416	(L20302) actin filament protein [Gallus gallus]	3.00E-45
739	1731428	ZINC FINGER PROTEIN ZFP-38	7.00E-35
740	968973	(U29156) involved in signaling by the epidermal growth factor receptor: Method: conceptual translation supplied by author. [Mus musculus]	1.00E-22

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
741	1552350	(Y08135) acid sphingomyelinase-like phosphodiesterase [Mus musculus]	2.00E-35
742	3327098	(AB014542) KIAA0642 protein [Homo sapiens]	3.00E-15
743	3914801	DNA-DIRECTED RNA POLYMERASE I 135 KD POLYPEPTIDE (RNA POLYMERASE I SUBUNIT 2) (RPA135) (RNA POLYMERASE I 127 KD SUBUNIT) >gi|2739048 (AF025424) RNA polymerase I 127 kDa subunit [Rattus norvegicus]	2.00E-45
745	4165018	(D89053) Acyl-CoA synthetase 3 [Homo sapiens]	2.00E-53
746	968973	(U29156) involved in signaling by the epidermal growth factor receptor: Method: conceptual translation supplied by author. [Mus musculus]	3.00E-40
747	4519883	(AB017970) dipeptidyl peptidase III	4.00E-50
748	3327052	(AB014519) KIAA0619 protein [Homo sapiens]	7.00E-30
749	538413	(L36315) zinc finger protein [Mus musculus]	6.00E-55
750	1717793	PROTEIN TSG24 (MEIOTIC CHECK POINT REGULATOR) >gi|1083553|pir||A55117 tsg24 protein - mouse	1.00E-50
751	3420277	(AF064826) glypican 4 [Homo sapiens]	3.00E-54
808	4580645	(AF118855) trans-prenyltransferase [Mus musculus]	2.00E-48
829	3882171	(AB018268) KIAA0725 protein [Homo sapiens]	3.00E-24
833	4104976	(AF043117) ubiquitin-fusion degradation protein 2 [Homo sapiens]	2.00E-41
841	3242214	(AJ006778) DRIM protein [Homo sapiens]	4.00E-34
914	4191810	(AB006532) DNA helicase [Homo sapiens]	5.00E-41
959	3043714	(AB011167) KIAA0595 protein [Homo sapiens]	5.00E-20
982	4379097	(Y17999) Dyrk1B protein kinase [Homo sapiens]	3.00E-21
1028	3043712	(AB011166) KIAA0594 protein [Homo sapiens]	2.00E-49
1079	4240227	(AB020676) KIAA0869 protein [Homo sapiens]	4.00E-35
1091	4235226	(AF061025) leucine zipper-EF-hand containing transmembrane protein 1 [Homo sapiens]	6.00E-34
1134	3426268	(AF044201) neural membrane protein 35; NMP35 [Rattus norvegicus]	1.00E-29
1152	4507367	threonyl-tRNA synthetase SYNTHETASE, CYTOPLASMIC (THREONINE--TRNA LIGASE) (THRRS) 6.1.1.3) - human >gi|1464742 (M63180) threonyl-tRNA synthetase [Homo sapiens]	3.00E-26
1153	2072294	(U95097) mitotic phosphoprotein 43 [Xenopus laevis]	1.00E-19
1163	543222	glutamine (Q)-rich factor 1, QRF-1 - mouse factor 1, QRF-1 [mice, B-cell leukemia, BCL1, Peptide Partial, 84 aa]	1.00E-39

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1164	3335569	(AF072759) fatty acid transport protein 4; FATP4 [Mus musculus]	7.00E-39
1168	2996194	(AF053232) SIK similar protein [Mus musculus]	1.00E-31
1172	2935597	(AC004262) R29368_2 [Homo sapiens]	6.00E-49
1201	2645205	(U63648) p160 myb-binding protein [Mus musculus]	1.00E-21
1204	1407655	(U58884) SH3P7 [Mus musculus]	8.00E-21
1214	2134381	polybromo 1 protein - chicken	8.00E-29
1219	4505613	PRKC. apoptosis. WT1. regulator par-4 [Homo sapiens]	6.00E-34
1229	3757892	(AF079765) enhancer of polycomb [Mus musculus]	3.00E-41
1231	2134436	zinc finger protein - chicken (fragment)	4.00E-37
1232	2393722	(U90313) glutathione-S-transferase homolog [Homo sapiens]	6.00E-34
1234	459002	(U00036) R151.6 gene product [Caenorhabditis elegans]	7.00E-10
1236	119530	PROTEIN DISULFIDE ISOMERASE-RELATED PROTEIN PRECURSOR (ERP72) >gi|87320|pir||A23723 protein disulfide-isomerase (EC 5.3.4.1) ERp72 precursor - human protein [Homo sapiens]	3.00E-23
1239	2073541	(L19437) transaldolase [Homo sapiens] >gi|2612879	2.00E-24
1241	984125	(X90857) -14 [Homo sapiens]	2.00E-23
1245	4106818	(AF083395) phospholipase A2-activating protein [Homo sapiens]	4.00E-36
1247	4507955	YY1 transcription factor REPRESSOR PROTEIN YY1 (YIN AND YANG 1) (YY-1) (DELTA TRANSCRIPTION FACTOR) (NF-E1) >gi|38011|emb|CAA78455|	4.00E-27
1250	1698779	(U70372) PAM COOH-terminal interactor protein 2 [Rattus norvegicus]	6.00E-35
1252	4204684	(AF102542) beta-1,6-N-acetylglucosaminyltransferase core 2/core 4 beta-1,6-N-acetylglucosaminyltransferase; core 2/4-GnT [Homo sapiens]	9.00E-43
1255	2239126	(Y10746) methyl-CpG binding protein [Homo sapiens]	4.00E-16
1259	1747519	(U76759) nuclear protein NIP45 [Mus musculus]	2.00E-29
1260	545790	DARPP-32=dopamine and cAMP-regulated phosphoprotein [human, brain, Peptide, 204 aa] sapiens]	1.00E-29
1261	1709689	PEPTIDE METHIONINE SULFOXIDE REDUCTASE (PEPTIDE MET(O) REDUCTASE) >gi|1205993 taurus]	1.00E-37
1265	2736151	(AF021935) mytonic dystrophy kinase-related Cdc42-binding kinase [Rattus norvegicus]	1.00E-41
1267	3329392	(AF038961) SL15 protein [Homo sapiens]	8.00E-36
1268	4097712	(U67322) HBV associated factor [Homo sapiens]	7.00E-56

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)			
SEQ ID	ACC'N	DESCRIP.	P VALUE
1269	585084	ELONGATION FACTOR G. MITOCHONDRIAL PRECURSOR (MEF-G) >gi|543383|pir||S40780 translation elongation factor G. mitochondrial - rat >gi|310102	7.00E-49
1270	1438534	(U49057) rA9 [Rattus norvegicus]	3.00E-45
1271	1336628	(U57368) EGF repeat transmembrane protein [Mus musculus]	7.00E-47
1272	3914802	DNA-DIRECTED RNA POLYMERASE I LARGEST SUBUNIT (RNA POLYMERASE I 194 KD SUBUNIT) (RPA194)	1.00E-37
1273	3387977	(AF070598) ABC transporter [Homo sapiens]	5.00E-50
1274	1717793	PROTEIN TSG24 (MEIOTIC CHECK POINT REGULATOR) >gi|1083553|pir||A55117 tsg24 protein - mouse	2.00E-48
1275	2493735	SKD3 PROTEIN SKD3 [Mus musculus]	7.00E-43
1276	1041038	(D78020) NFI-A4 [Rattus norvegicus]	3.00E-26
1284	4455118	(AF125158) zinc finger DNA binding protein 99	9.00E-41
1322	4049922	(AF072810) transcription factor WSTF [Homo sapiens]	4.00E-48
1338	4586287	(AB004794) DUF140 [Xenopus laevis]	3.00E-45
1345	3435244	(AF083322) centriole associated protein CEP110 [Homo sapiens]	2.00E-40
1370	3413886	(AB007931) KIAA0462 protein [Homo sapiens]	2.00E-35
1462	3882311	(AB018338) KIAA0795 protein [Homo sapiens]	4.00E-47
1497	4240167	(AB020646) KIAA0839 protein [Homo sapiens]	2.00E-46
1517	4191610	(AF117107) IGF-II mRNA-binding protein 2 [Homo sapiens]	3.00E-49
1519	3135669	(AF064084) prenylcysteine carboxyl methyltransferase	1.00E-39
1529	3043548	(AB011084) KIAA0512 protein [Homo sapiens]	2.00E-47
1531	3093476	(AF008915) EVI-5 homolog [Homo sapiens]	6.00E-19
1532	3834629	(AF094519) diaphanous-related formin: p134 mDia2 [Mus musculus]	1.00E-32
1533	3193226	(AF068706) gamma2-adaptin [Homo sapiens]	1.00E-46
1534	3851584	(AF092563) chromosome-associated protein-E [Homo sapiens]	4.00E-48
1535	4101695	(AF006010) progestin induced protein [Homo sapiens]	5.00E-30
1550	3850704	(AJ005273) Kin17 [Homo sapiens]	9.00E-24
1553	4240147	(AB020636) KIAA0829 protein [Homo sapiens]	9.00E-41
1554	2137490	lymphocyte specific helicase - mouse musculus]	5.00E-35
1561	3327052	(AB014519) KIAA0619 protein [Homo sapiens]	1.00E-41
1563	2137494	M-sema F protein precusor - mouse F [mice. neonatal brain. Peptide. 834 aa] [Mus sp.]	7.00E-34

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1564	2137603	nuclear receptor co-repressor N-CoR - mouse musculus] >gi|1583865|prf||2121436A thyroid hormone receptor co-repressor [Mus musculus]	9.00E-41
1565	2674107	(AF023451) guanine nucleotide-exchange protein [Bos taurus]	3.00E-48
1587	3659505	(AC005084) similar to mouse mCASK-A: similar to e1288039	1.00E-57
1649	114762	NUCLEOPHOSMIN (NPM) (NUCLEOLAR PHOSPHOPROTEIN B23) (NUMATRIN) (NUCLEOLAR PROTEIN NO38) sapiens]	6.00E-35
1651	3327056	(AB014521) KIAA0621 protein [Homo sapiens]	8.00E-40
1688	4545264	(AF118240) peroxisomal biogenesis factor 16 [Homo sapiens]	2.00E-65
1694	2498864	RRP5 PROTEIN HOMOLOG (KIAA0185) hypothetical protein YM9959.11C of S.cerevisiae. [Homo sapiens]	7.00E-77
1758	3420277	(AF064826) glypican 4 [Homo sapiens]	4.00E-76
1768	3088575	(AF059531) protein arginine N-methyltransferase 3 [Homo sapiens]	7.00E-97
1771	4050034	(AF098482) transcriptional coactivator p52 [Homo sapiens]	2.00E-58
1811	4506357	UNKNOWN: PZR >gi|3851145 sapiens]	2.00E-60
1830	3387977	(AF070598) ABC transporter [Homo sapiens]	e-113
1836	1709974	60S RIBOSOMAL PROTEIN L10A protein L10a [Rattus norvegicus] Ribosomal Protein RPL10A) [Homo sapiens]	e-111
1838	4507709	tissue specific transplantation antigen P35B >gi|1381179 (U58766) FX [Homo sapiens]	9.00E-90
1876	1117791	(U18297) MST1 [Homo sapiens]	4E-85
1877	4507015	copper transporter 1	3.00E-72
1897	4503301	2.4-dienoyl CoA reductase REDUCTASE. MITOCHONDRIAL PRECURSOR (2.4-DIENOYL-COA REDUCTASE (NADPH)) (4-ENOYL-COA REDUCTASE (NADPH)) precursor. mitochondrial - human >gi|602703 (L26050) 2.4-dienoyl-CoA reductase [Homo sapiens] >gi|2673979 precursor [Homo sapiens] >gi|4126313 (AF049895) 2.4-dienoyl-CoA reductase [Homo sapiens]	6E-94
1901	126743	MICROTUBULE-ASSOCIATED PROTEIN 4 human >gi|187383 (M64571) microtubule-associated protein 4 [Homo sapiens]	6E-84
1914	4505987	PTPRF interacting protein, binding protein 1 (liprin beta 1) >gi|3309539 (AF034802) liprin-beta1 [Homo sapiens]	4E-89
1920	3043644	(AB011132) KIAA0560 protein [Homo sapiens]	e-108

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)			
SEQ ID	ACC'N	DESCRIP.	P VALUE
1944	3413892	(AB007934) KIAA0465 protein [Homo sapiens]	7.00E-87
1956	4185796	(AF103796) placenta-specific ATP-binding cassette transporter [Homo sapiens]	2E-68
1973	4507145	UNKNOWN >gi|3873216 (AF065485) sorting nexin 4 [Homo sapiens]	1.00E-73
2008	1083566	zinc finger protein/transactivator Zfp-38 - mouse >gi|55477 |emb| CAA45280| (X63747) Zfp-38 [Mus musculus]	2E-64
2018	1806134	(Z67747) zinc finger protein [Mus musculus]	7.00E-78
2032	730451	60S RIBOSOMAL PROTEIN L13A (23 KD HIGHLY BASIC PROTEIN) >gi|345897|pir||S29539 basic protein. 23K - human >gi|23691|emb|CAA40254| (X56932) 23 kD highly basic protein [Homo sapiens]	4.00E-87
2285	4102967	(AF023142) pre-mRNA splicing SR protein rA4 [Homo sapiens]	1.00E-33
2317	3108093	(AF061258) LIM protein [Homo sapiens]	6.00E-82
2318	3170887	(AF061555) ubiquitin-protein ligase E3-alpha [Mus musculus]	e-104
2324	1552350	(Y08135) acid sphingomyelinase-like phosphodiesterase [Mus musculus]	6.00E-91
2365	1552350	(Y08135) acid sphingomyelinase-like phosphodiesterase [Mus musculus]	e-106
2366	3242214	(AJ006778) DRIM protein [Homo sapiens]	e-114
2387	4514653	(AB024057) vascular Rab-GAP/TBC-containing protein [Homo sapiens]	e-121
2441	2443367	(AB005216) Nck. Ash and phospholipase C gamma-binding protein NAP4 [Homo sapiens]	e-120
2475	119110	EBNA-1 NUCLEAR PROTEIN herpesvirus 4 (strain B95-8) >gi|1334880|emb|CAA24816.1| gene. [Human herpesvirus 4]	2.00E-38
2479	121640	GLYCINE-RICH CELL WALL STRUCTURAL PROTEIN PRECURSOR >gi|72320|pir||KNMU glycine-rich cell wall protein precursor - Arabidopsis thaliana	8.00E-31
2495	1362077	glycin-rich protein - cowpea (fragment)	2E-40
2519	121640	GLYCINE-RICH CELL WALL STRUCTURAL PROTEIN PRECURSOR >gi|72320|pir||KNMU glycine-rich cell wall protein precursor - Arabidopsis thaliana	9.00E-27
2546	2674107	(AF023451) guanine nucleotide-exchange protein [Bos taurus]	5E-89
2548	3717978	(Y12431) 5S ribosomal protein [Mus musculus]	5E-94
2556	4191610	(AF117107) IGF-II mRNA-binding protein 2 [Homo sapiens]	e-111

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
2578	2119281	CHO1 antigen - Chinese hamster	e-101
2579	3435244	(AF083322) centriole associated protein CEP110 [Homo sapiens]	2E-70
2591	1843434	(D88687) KM-102-derived reductase-like factor [Homo sapiens]	4.00E-91
2604	3834629	(AF094519) diaphanous-related formin: p134 mDia2 [Mus musculus]	1E-49

Table 3A Profile Hits

SEQ ID NO:	Description	Start	Stop	Dir
1967	14_3_3 proteins	166	845	for
2366	3'5'-cyclic nucleotide phosphodiesterases	64	573	for
1579	4 transmembrane integral membrane proteins	300	924	rev
1978	4 transmembrane integral membrane proteins	340	941	rev
1652	7 transmembrane receptor (rhodopsin family)	109	647	rev
1927	7 transmembrane receptor (rhodopsin family)	84	947	rev
2068	7 transmembrane receptor (rhodopsin family)	305	975	for
1598	7 transmembrane receptor (Secretin family)	50	1269	for
1719	7 transmembrane receptor (Secretin family)	63	1160	rev
1911	7 transmembrane receptor (Secretin family)	38	869	rev
1927	7 transmembrane receptor (Secretin family)	237	930	rev
2068	7 transmembrane receptor (Secretin family)	188	975	for
2341	7 transmembrane receptor (Secretin family)	377	1524	rev
1671	ATPases Associated with Various Cellular Activities	136	718	for
1672	ATPases Associated with Various Cellular Activities	271	765	for
1688	ATPases Associated with Various Cellular Activities	206	709	rev
1796	ATPases Associated with Various Cellular Activities	139	783	for
1830	ATPases Associated with Various Cellular Activities	265	713	for
1872	ATPases Associated with Various Cellular Activities	152	616	rev
1913	ATPases Associated with Various Cellular Activities	12	510	for
1922	ATPases Associated with Various Cellular Activities	125	658	for
1964	ATPases Associated with Various Cellular Activities	97	752	for
1997	ATPases Associated with Various Cellular Activities	185	664	for
2032	ATPases Associated with Various Cellular Activities	69	485	for
2170	ATPases Associated with Various Cellular Activities	73	550	for
2177	ATPases Associated with Various Cellular Activities	340	928	for

SEQ ID NO:	Description	Start	Stop	Dir
2290	ATPases Associated with Various Cellular Activities	872	1390	rev
2343	ATPases Associated with Various Cellular Activities	122	635	for
2358	ATPases Associated with Various Cellular Activities	84	492	rev
2390	ATPases Associated with Various Cellular Activities	31	434	rev
2414	ATPases Associated with Various Cellular Activities	953	1358	rev
2461	ATPases Associated with Various Cellular Activities	192	690	rev
2476	ATPases Associated with Various Cellular Activities	51	593	for
2482	ATPases Associated with Various Cellular Activities	135	615	rev
2578	ATPases Associated with Various Cellular Activities	0	673	for
1623	Basic region plus leucine zipper transcription factors	81	277	for
1715	C2 domain (prot. kinase C like)	403	582	for
2426	C2 domain (prot. kinase C like)	493	637	for
2238	Cysteine proteases	359	984	rev
1630	DEAD and DEAH box helicases	34	690	rev
1865	DEAD and DEAH box helicases	43	753	for
2517	DEAD and DEAH box helicases	426	719	for
1714	Dual specificity phosphatase. catalytic domain	365	696	rev
1728	Dual specificity phosphatase. catalytic domain	243	597	for
2087	Dual specificity phosphatase. catalytic domain	786	1566	for
1595	EF-hand	556	630	for
1671	Eukaryotic aspartyl proteases	116	763	for
1778	Eukaryotic aspartyl proteases	92	1008	rev
1903	Eukaryotic aspartyl proteases	73	603	rev
1945	Eukaryotic aspartyl proteases	147	694	rev
1963	Eukaryotic aspartyl proteases	38	740	rev
1991	Eukaryotic aspartyl proteases	404	1113	rev
2130	Eukaryotic aspartyl proteases	237	829	rev
2138	Eukaryotic aspartyl proteases	117	729	rev
2193	Eukaryotic aspartyl proteases	217	1397	rev
2290	Eukaryotic aspartyl proteases	413	1366	rev
2291	Eukaryotic aspartyl proteases	8	710	rev

SEQ ID NO:	Description	Start	Stop	Dir
2348	Eukaryotic aspartyl proteases	291	1146	rev
2430	Eukaryotic aspartyl proteases	216	1158	rev
2496	Eukaryotic aspartyl proteases	228	659	for
2523	Eukaryotic aspartyl proteases	276	1291	rev
2589	Eukaryotic aspartyl proteases	525	1431	for
1968	Fibronectin type II domain	455	565	rev
1779	G-protein alpha subunit	24	583	rev
1621	Helicases conserved C-terminal domain	160	309	for
1652	Helicases conserved C-terminal domain	363	560	rev
2192	Helix-loop-helix DNA binding domain	224	382	for
2181	kinase domain of tors	474	713	for
1825	mkk like kinases	17	626	rev
1876	mkk like kinases	35	719	for
2039	mkk like kinases	114	527	for
2526	mkk like kinases	9	463	for
1782	Neurotransmitter-gated ion-channel	267	1411	for
1922	Neurotransmitter-gated ion-channel	367	1168	for
2068	Neurotransmitter-gated ion-channel	222	1024	for
2102	Neurotransmitter-gated ion-channel	352	1273	for
2154	Neurotransmitter-gated ion-channel	377	1159	for
2538	Neurotransmitter-gated ion-channel	112	1120	for
1621	protein kinase	153	743	for
1630	protein kinase	123	904	for
1705	protein kinase	471	1072	for
1706	protein kinase	190	609	for
1710	protein kinase	235	641	for
1744	protein kinase	8	711	rev
1767	protein kinase	90	537	for
1776	protein kinase	200	524	rev
1782	protein kinase	706	1331	for
1822	protein kinase	24	666	for
1825	protein kinase	56	593	rev
1844	protein kinase	263	824	for
1850	protein kinase	217	779	for
1876	protein kinase	290	711	for
1977	protein kinase	38	776	for
2051	protein kinase	14	657	for
2112	protein kinase	202	644	rev
2169	protein kinase	1	656	for
2205	protein kinase	57	689	for
2242	protein kinase	33	646	for

SEQ ID NO:	Description	Start	Stop	Dir
2291	protein kinase	630	1148	rev
2454	protein kinase	49	761	rev
2526	protein kinase	0	463	for
2558	protein kinase	77	590	for
1719	Protein Tyrosine Phosphatase	82	482	rev
1769	Protein Tyrosine Phosphatase	71	461	rev
2062	Protein Tyrosine Phosphatase	270	704	for
2197	Protein Tyrosine Phosphatase	359	851	for
2275	Protein Tyrosine Phosphatase	56	680	for
1850	RNA recognition motif. (aka RRM. RBD. or RNP domain)	165	365	for
2194	RNA recognition motif. (aka RRM. RBD. or RNP domain)	37	174	for
2441	SH2 Domain	201	362	for
1618	Thioredoxins	253	554	for
1579	Trypsin	252	1007	rev
2290	Trypsin	350	1164	rev
2341	Trypsin	447	1211	rev
2421	Trypsin	14	765	rev
2430	Trypsin	700	1556	rev
2438	Trypsin	47	670	rev
2281	WD domain. G-beta repeats	70	161	for
1579	wnt family of developmental signaling proteins	282	1017	rev
1653	wnt family of developmental signaling proteins	154	978	rev
1778	wnt family of developmental signaling proteins	38	858	rev
1826	wnt family of developmental signaling proteins	574	1318	rev
1875	wnt family of developmental signaling proteins	578	1313	rev
1904	wnt family of developmental signaling proteins	205	1068	rev
1992	wnt family of developmental signaling proteins	2	824	rev
2004	wnt family of developmental signaling proteins	621	1420	rev
2129	wnt family of developmental signaling proteins	394	1343	rev
2145	wnt family of developmental signaling proteins	162	1027	rev
2204	wnt family of developmental signaling proteins	274	1405	rev
2238	wnt family of developmental signaling proteins	560	1195	rev
2290	wnt family of developmental signaling proteins	250	1273	rev
2291	wnt family of developmental signaling proteins	523	1409	rev
2294	wnt family of developmental signaling proteins	297	1237	rev
2341	wnt family of developmental signaling proteins	51	1002	rev
2343	wnt family of developmental signaling proteins	28	1180	rev
2348	wnt family of developmental signaling proteins	638	1614	rev
2373	wnt family of developmental signaling proteins	30	1078	rev

SEQ ID NO:	Description	Start	Stop	Dir
2409	wnt family of developmental signaling proteins	4	1074	rev
2410	wnt family of developmental signaling proteins	208	1107	rev
2414	wnt family of developmental signaling proteins	242	1068	rev
2421	wnt family of developmental signaling proteins	159	1057	rev
2430	wnt family of developmental signaling proteins	844	1691	rev
2436	wnt family of developmental signaling proteins	107	784	rev
2438	wnt family of developmental signaling proteins	127	1226	rev
2463	wnt family of developmental signaling proteins	5	704	rev
2473	wnt family of developmental signaling proteins	328	1193	rev
2511	wnt family of developmental signaling proteins	341	1222	rev
2523	wnt family of developmental signaling proteins	820	1617	rev
2528	wnt family of developmental signaling proteins	461	1283	rev
1735	Zinc finger, C2H2 type	495	557	for
1942	Zinc finger, C2H2 type	500	562	for
2018	Zinc finger, C2H2 type	279	341	for
2254	Zinc finger, C2H2 type	148	210	for
2515	Zinc finger, C2H2 type	422	484	for

Table 3B Profile Hits for Contigs

SEQ ID NO:	Description	Start	Stop	Dir
2641	ATPases Associated with Various Cellular Activities	118	661	for
2655	ATPases Associated with Various Cellular Activities	135	536	for
2685	ATPases Associated with Various Cellular Activities	142	574	for
2648	DEAD and DEAH box helicases	66	931	rev
2686	Helicases conserved C-terminal domain	51	242	for
2661	Neurotransmitter-gated ion-channel	169	738	rev
2640	Protein phosphatase 2A regulatory subunit PR55	275	1510	for
2655	Protein phosphatase 2A regulatory subunit PR55	55	1087	for
2670	Protein phosphatase 2A regulatory subunit PR55	13	1183	for
2684	Protein phosphatase 2A regulatory subunit PR55	511	1861	rev
2679	Protein Tyrosine Phosphatase	292	768	for
2668	Thioredoxins	182	475	for

Table 22 Deposits of Pooled Clones

ES34	ES35	ES36	ES37
M00006992C:G02	M00005468A:D08	M00005452C:A02	M00022171D:B08
M00006756D:E10	M00021892B:H03	M00001382C:C09	M00008061A:F02
M00003984C:F04	M00001390A:C06	M00004841C:B09	M00003820C:A09
M00007125D:E03	M00022074D:F11	M00001441D:H05	M00022109B:A11
M00006650A:A10	M00005460B:D02	M00022716D:D08	M00005342D:F03
M00001452B:H06	M00022423B:D03	M00022828C:E04	M00022070B:C10
M00022972D:C10	M00007140A:F11	M00004350B:F06	M00006966B:B09
M00022305C:A01	M00004081B:C11	M00005685B:D08	M00022381C:C12
M00007010B:H01	M00005480A:H12	M00004190A:A09	M00003991B:B05
M00021946D:C11	M00008015D:E09	M00004054D:D02	M00022404D:G05

ES38	ES39	ES40	ES41
M00021912B:H11	M00007118B:B04	M00006993B:B09	M00007974B:C11
M00005378C:A10	M00007019A:B01	M00004242C:C01	M00021860B:G06
M00022578C:B07	M00021682B:D12	M00007986C:C05	M00006927C:F12
M00005513A:D08	M00005411D:A03	M00004115A:G09	M00022582C:E12
M00022176C:A08	M00006641C:H02	M00022600C:A06	M00006618C:G08
M00006822D:F07	M00007041B:C05	M00005384A:A01	M00005450B:B01
M00004031A:B04	M00005444B:E11	M00021667D:E03	M00001417B:E01
M00021927D:D12	M00022745B:G02	M00008078C:C06	M00003825B:A05
M00001553D:B06	M00022685A:F11	M00007985A:B09	M00001370B:B04
M00022404B:H05	M00004446A:G01	M00007953B:B03	M00006727B:E09

ES42	ES43	ES44	ES45
M00001478A:B06	M00006923B:H08	M00006615B:F05	M00005468D:F04
M00003972B:A11	M00005377D:F11	M00005486C:B03	M00006720C:C11
M00005477C:D08	M00006640B:H09	M00007124C:A11	M00005817D:E12
M00006745A:A01	M00005404C:F02	M00006995D:A03	M00001669B:A03
M00007090B:A02	M00004030A:G12	M00007149D:G06	M00003998A:G12
M00007152A:B04	M00006704D:D03	M00006990D:D06	M00004045A:B12
M00006953B:H10	M00006810D:A05	M00005530B:E04	M00004130D:E04
M00005399D:B02	M00005481C:A05	M00003918C:E07	M00004160A:D07
M00006987B:F04	M00005411A:C07	M00007163A:B10	M00001655A:F07
M00005772A:F03	M00003970A:G10	M00005485C:A03	M00001468D:D11

ES46
M00004217A:A05
M00004183D:B07
M00001415D:A05
M00004158C:F03
M00004031D:G02

Table 23. Library Deposits

ES47	ES48	ES49	ES50
M00001399D:F09	M00004217D:G10	M00004508A:G12	M00021653A:G07
M00001455A:C03	M00004218C:G10	M00004508B:G02	M00021654C:A02
M00001456C:F02	M00004252D:H08	M00001432B:H08	M00021660C:G04
M00001487D:G03	M00004253B:A10	M00001432C:G01	M00021665A:D04
M00001539B:B01	M00004253B:F06	M00003992D:G01	M00021670B:G11
M00001565A:A02	M00004253C:E10	M00005326B:F03	M00021678A:B08
M00001572C:E07	M00004260A:B07	M00005332A:H10	M00021680B:C01
M00001582D:B10	M00004260C:A12	M00005342A:C04	M00021681C:B10
M00001584C:A03	M00004260C:E10	M00005342A:D04	M00021690D:E05
M00001586A:F09	M00001339B:A03	M00005349B:G01	M00021692A:E03
M00001588D:H08	M00001342C:A04	M00005352B:D02	M00021692C:E06
M00001610B:A01	M00001344D:G11	M00005354C:E02	M00021694B:A07
M00001618B:F02	M00001345A:A12	M00005356A:D09	M00021698B:B12
M00001618C:E06	M00001347A:G06	M00005359D:G07	M00021828A:C08
M00001621C:A04	M00001347B:H01	M00005378A:A08	M00021841C:D07
M00001626B:H05	M00001353B:D11	M00005383D:D06	M00021859A:D04
M00001641B:G05	M00001355B:A01	M00005383D:E07	M00021861C:A02
M00001648C:F06	M00001358D:D09	M00005385C:G05	M00021862A:A04
M00001649D:H05	M00001359A:B07	M00005388D:F09	M00021862D:F01
M00001656D:F11	M00001362A:C10	M00005390B:G10	M00021886D:E04
M00001660A:F10	M00001362B:A09	M00005397C:B03	M00021897B:A06
M00001669A:H11	M00001365D:D12	M00005399A:D01	M00021905A:G05
M00003741A:E01	M00001365D:H09	M00005409D:C02	M00021905B:A01
M00003745C:E03	M00001370A:G09	M00005415C:G08	M00021906C:G11
M00003746A:E01	M00001370B:B12	M00005417A:E10	M00021910A:C10
M00003748B:B06	M00001374D:D09	M00005442D:C05	M00021927A:C11
M00003749B:C08	M00001376B:C11	M00005446A:G01	M00021927B:F01
M00003749D:G07	M00001377A:D03	M00005446C:D12	M00021932C:C05
M00003752A:B06	M00001377A:E01	M00005454C:H12	M00021932C:G10
M00003752D:D09	M00001377C:B08	M00005455A:D01	M00021947A:C01
M00003753C:B01	M00001387A:A04	M00005455A:G03	M00021952B:F11
M00003754C:F01	M00001387D:C07	M00005462C:B02	M00021954A:A03
M00003756C:C08	M00001389B:B06	M00005469D:C11	M00021964A:C04
M00003759A:E10	M00001390A:H01	M00005480C:B12	M00021967D:E08
M00003762A:D11	M00001399C:E10	M00005483D:A12	M00021977D:E02
M00003763B:D03	M00001401D:D04	M00005484A:D09	M00021978A:F08
M00003763D:F06	M00001402D:C07	M00005491B:C03	M00021982C:F08
M00003765D:E02	M00001402D:H03	M00005493B:C08	M00021983B:B03
M00003766B:G04	M00001403B:A01	M00005494D:F11	M00021983D:B10
M00003767C:F04	M00001405D:F05	M00005496C:A01	M00022005C:G03
M00003769B:A04	M00001406C:A11	M00005496D:A10	M00022032A:E07
M00003769D:G12	M00001406D:H01	M00005497B:H07	M00022049A:A02
M00003770D:C07	M00001407B:A08	M00005497C:C07	M00022049A:D06

ES47	ES48	ES49	ES50
M00003771A:G09	M00001407D:H11	M00005497C:C12	M00022054D:C05
M00003771D:A10	M00001411A:D01	M00005497C:E03	M00022064C:H07
M00003773A:C09	M00001411C:G02	M00005498B:F08	M00022067D:C05
M00003773B:E09	M00001412A:A11	M00005498C:G05	M00022068B:H11
M00003773B:G08	M00001415D:E12	M00005508B:B04	M00022068D:D12
M00003773C:G06	M00001417C:E02	M00005524C:B01	M00022069D:G02
M00003773D:C02	M00001421A:H07	M00005528D:A10	M00022071B:D05
M00003789C:E03	M00001422D:D02	M00005530B:D03	M00022071C:D09
M00003790B:F12	M00001423C:D06	M00005534B:H10	M00022075D:F05
M00003793C:D11	M00001424A:H09	M00005548B:E03	M00022081C:G11
M00003796B:C07	M00001425C:E10	M00005550B:D09	M00022084B:F04
M00003797D:H06	M00001426A:F09	M00005565C:A08	M00022085C:C04
M00003801D:F05	M00001426D:D09	M00005589C:B03	M00022090A:G08
M00003805A:G05	M00001431A:C10	M00005616B:D05	M00022093A:A05
M00003808C:D09	M00001431A:E05	M00005620C:C05	M00022093D:B10
M00003809A:A12	M00001432A:F12	M00005621A:G10	M00022094B:G10
M00003809A:H12	M00001432B:H08	M00005621D:F01	M00022106C:F04
M00003813D:A06	M00001432C:G01	M00005631A:A11	M00022110A:E04
M00003818A:F09	M00001433A:C07	M00005632C:D06	M00022114C:B02
M00003818B:A01	M00001434A:A01	M00005637B:D12	M00022117C:G07
M00003819D:G09	M00001435A:F03	M00005642B:C03	M00022128A:D04
M00003821C:E04	M00001435A:G01	M00005647D:D09	M00022139A:C01
M00003822A:G05	M00001435B:G10	M00005655B:C02	M00022149B:D05
M00003825C:B02	M00001435C:G08	M00005703A:C08	M00022150A:H06
M00003825C:B12	M00001435D:A06	M00005704A:B11	M00022153D:D11
M00003833B:A11	M00001436D:C10	M00005708D:B03	M00022157A:F12
M00003834A:A03	M00001437B:B05	M00005710A:C08	M00022157B:A10
M00003835D:H05	M00001438C:H05	M00005720A:D03	M00022169D:C02
M00003839D:G06	M00001439B:F10	M00005722D:G03	M00022170D:H09
M00003841A:E09	M00001439C:A01	M00005743B:F02	M00022175A:A11
M00003841B:D05	M00001439C:G06	M00005763B:H09	M00022176A:E08
M00003843A:B01	M00001442A:D08	M00005765C:C04	M00022178D:H01
M00003844C:D04	M00001443D:A01	M00005810C:D04	M00022183A:G03
M00003844C:H05	M00001444A:A09	M00005813D:F06	M00022189A:A01
M00003846B:H02	M00001446D:B10	M00005818C:E08	M00022198A:C12
M00003850B:D11	M00001452D:E05	M00005818C:G01	M00022199C:F03
M00003852D:D03	M00001453D:F09	M00006576D:F11	M00022202C:F11
M00003859C:B09	M00001463C:A01	M00006577B:H12	M00022206B:G06
M00003868D:F02	M00001466C:F02	M00006587A:H08	M00022212C:C02
M00003868D:F07	M00001471C:G03	M00006594A:E08	M00022216D:C01
M00003871A:E09	M00001488B:G12	M00006596D:H04	M00022218C:B06
M00003884D:A12	M00001489B:F08	M00006601C:A07	M00022218D:B12
M00003887B:C03	M00001489D:C08	M00006601C:E06	M00022220C:F08
M00003888B:A10	M00001490B:G04	M00006609A:G10	M00022221D:E08

ES47	ES48	ES49	ES50
M00003888C:E01	M00001491C:C01	M00006633C:E11	M00022226C:B06
M00003890B:H07	M00001496A:B03	M00006633D:A06	M00022226D:A07
M00003890D:C03	M00001496D:D02	M00006634B:C02	M00022231A:F12
M00003892D:D04	M00001500A:D09	M00006636A:B08	M00022231C:A04
M00003893C:D12	M00001504D:D09	M00006644A:B11	M00022236D:A03
M00003895D:A03	M00001505A:E09	M00006644D:C02	M00022239A:A10
M00003896B:F08	M00001506A:F01	M00006686A:G12	M00022239B:B07
M00003896D:B01	M00001517D:C03	M00006692B:E04	M00022239D:A07
M00003903C:H03	M00001518D:A10	M00006728D:G10	M00022252C:E06
M00003905C:B01	M00001536B:B11	M00006733D:G12	M00022253B:E06
M00003905C:E10	M00001537B:C12	M00006734A:H12	M00022254C:D08
M00003906C:H12	M00001542C:D10	M00006735A:H02	M00022255A:C08
M00003909D:G01	M00001542C:F06	M00006764B:D05	M00022255D:E03
M00003911C:G05	M00001543A:E04	M00006765B:H06	M00022258C:F06
M00003912B:G11	M00001546B:H01	M00006785B:F09	M00022259B:G02
M00003912C:C11	M00001551D:C12	M00006791B:B08	M00022278C:E03
M00003914C:E03	M00001552B:D01	M00006796A:C03	M00022278D:F10
M00003915A:D09	M00001556D:A11	M00006800C:G08	M00022288C:D04
M00003915C:G01	M00001557C:B08	M00006814A:F07	M00022289A:D05
M00003920B:A10	M00001558B:A12	M00006819A:D10	M00022289D:B06
M00003921D:C06	M00001560C:C01	M00006820A:G05	M00022294A:D11
M00003923A:H07	M00001561B:C10	M00006821C:C10	M00022296B:C11
M00003936C:F10	M00001597C:B03	M00006822A:D07	M00022305A:H11
M00003948B:B03	M00001623B:B01	M00006823D:D12	M00022364C:G12
M00003949B:A08	M00001623D:A09	M00006826B:H03	M00022366B:E09
M00003949B:D05	M00001644D:F09	M00006828D:C12	M00022372B:D03
M00003961B:A12	M00003784C:B09	M00006832D:F11	M00022381A:F05
M00003961C:G02	M00003785D:E01	M00006846A:B01	M00022382D:H11
M00003962B:B09	M00003862C:H10	M00006850C:D09	M00022386A:A07
M00003963B:D12	M00003864B:A04	M00006850C:G07	M00022386B:D11
M00003973A:C05	M00003864D:G05	M00006851C:H09	M00022386C:A04
M00003973B:H06	M00003992C:G01	M00006863B:E06	M00022386C:D07
M00003976D:D12	M00003992D:G01	M00006866C:F03	M00022399C:A10
M00003977C:A08	M00003994C:C11	M00006867C:E07	M00022407C:H11
M00003980B:F12	M00003996D:C04	M00006868D:E02	M00022411D:G09
M00003980C:G10	M00003997D:D07	M00006870C:H06	M00022412A:C08
M00003981C:E04	M00003998A:D03	M00006873B:G11	M00022444A:A11
M00003983C:E07	M00003998C:H10	M00006875A:A02	M00022449C:B01
M00003987D:F06	M00003999C:C12	M00006877B:E05	M00022452C:B03
M00004027A:B10	M00004046A:F04	M00006879A:H11	M00022457C:B01
M00004027C:H01	M00004051C:D02	M00006882A:D01	M00022495C:G05
M00004028C:B04	M00004052C:A08	M00006901D:A11	M00022504B:E03
M00004030B:B02	M00004052C:B05	M00006907C:D03	M00022505D:A12
M00004030B:C05	M00004054B:G02	M00006907D:C07	M00022509D:F06

ES47	ES48	ES49	ES50
M00004035D:E04	M00004054D:A03	M00006912B:E01	M00022527A:E05
M00004036B:F09	M00004055B:F06	M00006921B:E01	M00022527D:B03
M00004036C:D01	M00004058B:C11	M00006960D:E06	M00022531B:D07
M00004037A:A07	M00004058C:E08	M00006963A:H11	M00022535D:B11
M00004037B:B05	M00004059A:G09	M00006966C:B07	M00022535D:C04
M00004038C:C05	M00004060C:A02	M00006972A:F10	M00022536B:B04
M00004038C:D12	M00004060D:A07	M00006973C:E11	M00022551A:G03
M00004039D:D03	M00004063C:B11	M00006973D:E11	M00022556B:C04
M00004040B:B09	M00004143A:G12	M00006974B:F06	M00022556B:G02
M00004040C:G12	M00004143A:H07	M00006976C:E09	M00022562C:H10
M00004040D:B05	M00004145C:A03	M00007014C:B07	M00022578B:G05
M00004041B:F01	M00004146D:A07	M00007015C:G05	M00022578D:F03
M00004041D:E06	M00004147A:G03	M00007016C:E06	M00022583B:E05
M00004043D:C10	M00004149B:H12	M00007041B:G01	M00022587C:G04
M00004069D:G02	M00004153D:E06	M00007042A:E07	M00022594B:H12
M00004071A:H03	M00004154D:F11	M00007043A:B05	M00022598A:F11
M00004073D:B11	M00004159D:C04	M00007046A:D02	M00022599D:E07
M00004076D:B03	M00004166B:E10	M00007047B:D01	M00022604B:C11
M00004081C:A01	M00004166C:A03	M00007051D:D09	M00022607B:A04
M00004084C:G04	M00004166D:G07	M00007053B:H03	M00022613D:C04
M00004085B:G06	M00004196C:G05	M00007058A:C02	M00022651D:C06
M00004087C:F05	M00004234B:E03	M00007062A:D03	M00022666C:H11
M00004091A:E01	M00004234B:G06	M00007099A:F09	M00022681C:H02
M00004091B:C12	M00004236D:E07	M00007100C:D01	M00022682A:F12
M00004091B:G04	M00004236D:F04	M00007112B:C06	M00022698C:E06
M00004091C:F04	M00004240D:A07	M00007105D:C07	M00022701B:B12
M00004091D:D09	M00004242C:C02	M00007121A:A05	M00022708A:C08
M00004092A:C03	M00004244B:A02	M00007122A:G11	M00022708D:G10
M00004092A:D04	M00004245A:G09	M00007122B:A11	M00022725C:E09
M00004093D:D09	M00004245C:A03	M00007127B:A04	M00022726A:A06
M00004101D:A03	M00004247A:E01	M00007129A:G10	M00022730A:E04
M00004103B:C07	M00004247B:C11	M00007130B:B03	M00022737A:C08
M00004107C:A01	M00004248A:G08	M00007132D:G08	M00022763A:E10
M00004114C:F02	M00004263D:F06	M00007134C:F07	M00022824C:H11
M00004115A:F01	M00004272D:D02	M00007137D:C10	M00022835C:E06
M00004117B:F01	M00004273D:E11	M00007140D:C12	M00022854D:H07
M00004120A:C02	M00004277D:C08	M00007150A:C09	M00022856A:D02
M00004126B:G02	M00004281B:B05	M00007150A:H06	M00022856B:F04
M00004129A:H08	M00004283C:D03	M00007154A:E04	M00022856C:B11
M00004130C:A09	M00004285B:E01	M00007163A:F11	M00022893C:H11
M00004133D:A01	M00004297D:E08	M00007163B:A12	M00022897A:F04
M00004178B:F06	M00004298B:D04	M00007166B:E06	M00022900D:E08
M00004180B:F04	M00004308A:E06	M00007170D:A10	M00022900D:G03
M00004184B:F11	M00004324B:D09	M00007172A:A05	

ES47	ES48	ES49	ES50
M00004191B:G01	M00004328A:H06	M00007172D:C08	
M00004193A:C07	M00004329C:F11	M00007188A:D03	
M00004193C:H01	M00004331D:H08	M00007189D:A09	
M00004199D:C02	M00004332C:E09	M00007193D:A04	
M00004200A:A09	M00004337D:G08	M00007195B:B02	
M00004200A:G06	M00004345A:H06	M00007198C:A10	
M00004200D:A07	M00004383A:F02	M00007199D:B07	
M00004201D:C11	M00004385C:B11	M00007204C:F09	
M00004201D:E12	M00004388C:D05	M00007929B:H10	
M00004202B:A02	M00004406A:H03	M00007961A:B01	
M00004204A:D04	M00004408D:A10	M00007964B:D10	
M00004204A:D10	M00004410A:E03	M00007971A:B04	
M00004204B:A04	M00004412B:E03	M00007977C:E08	
M00004210A:B09	M00004421A:G04	M00007995D:E06	
M00004216D:E10	M00004447D:D10	M00008074D:C01	
M00004217A:A11	M00004460B:H09	M00008094A:E10	
	M00004465C:B10	M00021611D:D05	
	M00004465C:B12	M00021611D:H03	
	M00004467A:F09	M00021614B:G12	
	M00004467D:F09	M00021618D:D07	
	M00004491D:D07	M00021624A:D07	
	M00004497C:E09	M00021624B:A03	
	M00004501A:G06	M00021625A:C07	
	M00004506C:H10	M00021629D:D05	

Table 24 Library Deposits			
ES51	**ES52**	**ES53**	**ES54**
M00001448A:D05	M00001439B:E02	M00006621A:G10	M00021640A:G03
M00001458B:F06	M00001443A:E02	M00006626A:G11	M00021657B:C08
M00001530A:D11	M00001443D:C03	M00006629D:D04	M00021690B:B06
M00001563C:D06	M00001444A:G12	M00006630B:H06	M00021690C:B07
M00001564C:D04	M00001445B:E03	M00006631D:B02	M00022071C:C09
M00001569B:F04	M00001451B:H11	M00006631D:C04	M00022081C:B11
M00001575A:H02	M00001452B:F09	M00006631D:E09	M00022085C:A07
M00001589C:D12	M00001488B:H02	M00006635C:B10	M00022091B:B07
M00001589D:G10	M00001491D:E07	M00006636A:E06	M00022122D:D06
M00001590D:A07	M00001496C:H10	M00006636D:A05	M00022150D:D11
M00001598C:D10	M00001499A:D01	M00006636D:F11	M00022154A:C01
M00001599A:H09	M00001499A:D05	M00006640A:B01	M00022170D:H07
M00001609A:B12	M00001499B:H05	M00006640B:F05	M00022365A:A01
M00001614C:G04	M00001500B:H07	M00006640D:H08	M00022389B:H04
M00001626C:C10	M00001504C:H11	M00006641A:B03	M00022439A:E07
M00001634C:E12	M00001506D:A11	M00006643A:E10	M00022449D:F06
M00001639A:A04	M00001543A:D03	M00006644C:E09	M00022458B:E06
M00001640A:F02	M00001543A:F01	M00006648C:E04	M00022474A:H09
M00001640A:F04	M00001548C:A09	M00006650A:B11	M00022480B:E07
M00001647C:C07	M00001555D:F11	M00006656C:C10	M00022489C:A08
M00001649B:E08	M00001557B:D10	M00006664B:B04	M00022490C:A08
M00001654D:F06	M00001597A:C07	M00006664D:H09	M00022490C:C01
M00001658B:C07	M00001604B:D09	M00006665A:F07	M00022493C:B07
M00001659D:G08	M00001605D:G01	M00006665B:D10	M00022493C:C06
M00001663C:C03	M00001621D:B09	M00006674B:F04	M00022498C:C08
M00001675C:B03	M00001622C:F06	M00006676B:F11	M00022514A:D04
M00001677A:A06	M00001624A:A09	M00006676D:D11	M00022515D:C04
M00001677A:A12	M00001640D:C10	M00006679C:D07	M00022549B:G07
M00001678D:A12	M00001645B:C09	M00006681C:G04	M00022557B:A08
M00001679C:F03	M00003782D:F04	M00006695B:F08	M00022565C:H02
M00001681A:H09	M00003783C:A06	M00006698B:E06	M00022578D:A08
M00001687C:A06	M00003786D:C06	M00006699B:C07	M00022597B:F11
M00001693D:F07	M00003787B:D07	M00006705B:D02	M00022599A:C03
M00003746B:E12	M00003787D:A06	M00006712B:H10	M00022661B:E11
M00003766A:G09	M00003864C:D09	M00006717A:D04	M00022661D:H01
M00003795A:B01	M00003993A:E12	M00006721C:G07	M00022666B:E12
M00003796C:H03	M00003997B:H04	M00006725A:A03	M00022674D:G04
M00003797D:E10	M00003997D:G11	M00006725A:B03	M00022718D:G05
M00003799B:D02	M00004047B:G09	M00006727B:G08	M00022725C:B03
M00003809B:D08	M00004048D:A07	M00006728C:B06	M00022727B:C05
M00003811B:E07	M00004049D:G04	M00006737C:A08	M00022728A:A09
M00003812B:F08	M00004050A:F02	M00006738A:E05	M00022730D:E10
M00003812D:E08	M00004051C:D10	M00006739B:B10	M00022735B:B01

ES51	ES52	ES53	ES54
M00003815C:A06	M00004058B:F12	M00006739B:B12	M00022745A:B04
M00003815D:D01	M00004060C:A11	M00006739C:H07	M00022856B:D07
M00003816C:F10	M00004064A:B12	M00006743B:G12	M00022901D:C09
M00003818C:E09	M00004066A:E12	M00006744C:C06	M00022902D:D03
M00003819A:B09	M00004067C:D08	M00006745D:E08	M00022953B:C07
M00003819C:E04	M00004134A:F08	M00006751A:F03	M00022960D:E08
M00003820A:H04	M00004134A:H04	M00006758D:C01	M00022963A:D11
M00003820D:E02	M00004134C:B11	M00006760D:G12	M00022968A:F02
M00003824B:D06	M00004140B:B01	M00006763B:B11	M00022980B:E11
M00003825B:D12	M00004143C:F08	M00006769D:A04	M00022980C:A09
M00003826B:D01	M00004144D:B06	M00006770B:C05	M00022993A:F02
M00003829A:E02	M00004152C:E01	M00006771A:E06	M00023003C:A03
M00003832B:G03	M00004159D:H07	M00006771A:H07	M00023011A:A06
M00003833D:D06	M00004160A:A01	M00006771B:A09	M00023021A:H08
M00003835A:E03	M00004161B:A12	M00006771B:F03	M00023023A:B12
M00003837C:F05	M00004163A:D11	M00006774D:C01	M00023028A:A02
M00003839C:B05	M00004164D:D02	M00006777B:D10	M00023033A:E10
M00003845A:A05	M00004165C:E09	M00006779B:A11	M00023034C:E05
M00003846D:C12	M00004166A:F02	M00006779D:D03	M00023036D:C04
M00003857C:A03	M00004167C:F10	M00006780A:H12	M00023094A:C04
M00003858A:D01	M00004169A:B11	M00006789C:F04	M00023103A:E11
M00003860B:A07	M00004200B:B04	M00006790D:A05	M00006754B:D05
M00003868B:C07	M00004222A:H10	M00006796A:H10	
M00003881D:D09	M00004223D:D07	M00006797B:D12	
M00003883D:C03	M00004225D:F01	M00006801A:G05	
M00003884B:E06	M00004228C:D11	M00006805A:E11	
M00003886C:D10	M00004229C:G11	M00006805A:H09	
M00003903C:A12	M00004239C:A07	M00006805B:C04	
M00003912C:H01	M00004239C:C09	M00006807D:D08	
M00003915B:G07	M00004240D:E06	M00006813A:C04	
M00003920D:D09	M00004241B:B01	M00006822D:D05	
M00003926B:E03	M00004243C:E10	M00006825C:D06	
M00003934D:F01	M00004266A:F10	M00006831B:B04	
M00003958C:C10	M00004266B:H06	M00006832A:F05	
M00003965A:F07	M00004268C:F08	M00006832D:F10	
M00003972C:F02	M00004268D:G07	M00006833B:E11	
M00003974B:A04	M00004269A:B11	M00006872B:G01	
M00003974C:A05	M00004269D:E08	M00006875D:D10	
M00003975B:H09	M00004276C:E12	M00006879D:A10	
M00003976C:C05	M00004277B:C06	M00006882D:F03	
M00003980C:A11	M00004277C:H11	M00006884D:D06	
M00003987A:C07	M00004279D:E02	M00006908C:A05	
M00003988B:C10	M00004281B:B03	M00006921B:C02	
M00003988C:A06	M00004284B:F07	M00006921B:E03	

ES51	ES52	ES53	ES54
M00003989C:F01	M00004287B:B12	M00006949B:F03	
M00004028C:D01	M00004287C:B06	M00006960A:G11	
M00004029A:E01	M00004297D:B08	M00006966D:G03	
M00004030A:E09	M00004332B:D02	M00006974B:D06	
M00004031A:G05	M00004332B:E11	M00007013B:F02	
M00004032D:D03	M00004346B:D06	M00007014D:C05	
M00004033C:D10	M00004389C:E01	M00007014D:D04	
M00004034A:E08	M00004403A:B05	M00007030A:G01	
M00004035A:A10	M00004407D:B09	M00007030C:F08	
M00004035B:H11	M00004419D:G01	M00007053B:C07	
M00004035D:C05	M00004449D:H01	M00007065B:B12	
M00004037B:A09	M00004463C:F11	M00007065D:C01	
M00004037C:C05	M00004466A:E09	M00007075C:D08	
M00004037D:B05	M00004469A:C12	M00007085A:B07	
M00004044A:F08	M00004470C:A02	M00007118C:G02	
M00004068A:F02	M00004498B:E01	M00007119B:H10	
M00004068B:D04	M00004509A:H02	M00004824C:G09	
M00004068D:B01	M00004605C:A09	M00004826A:E09	
M00004069B:B01	M00004609C:C11	M00004839C:B01	
M00004073D:E01	M00001378B:F06	M00004840C:F02	
M00004075A:G10	M00005294C:G08	M00004840C:H05	
M00004075C:C09	M00005294D:H02	M00004845D:E11	
M00004076A:E02	M00005330C:F09	M00004846A:D02	
M00004077D:D10	M00005333C:C08	M00004846D:H09	
M00004078A:F03	M00005342B:G10	M00004854A:C09	
M00004078C:A08	M00005352C:G09	M00004858D:E06	
M00004084A:D11	M00005352D:E06	M00004999A:F01	
M00004086A:A03	M00005353B:B09	M00004999B:D12	
M00004086D:A07	M00005359B:G01	M00004999D:E01	
M00004088A:F12	M00005359D:H08	M00005004B:C11	
M00004089A:F02	M00005377A:A04	M00005005C:E06	
M00004089A:G03	M00005377A:D05	M00005009B:A02	
M00004093A:F03	M00005385C:D08	M00005015D:D11	
M00004097C:A03	M00005388A:F07	M00005457D:C08	
M00004102B:B04	M00005388D:B11	M00005519B:H04	
M00004102C:F07	M00005392C:C04	M00005519C:F08	
M00004103B:C09	M00005393A:E11	M00005531B:A03	
M00004103C:F11	M00005394A:G07	M00005535B:F06	
M00004104A:H09	M00005396B:C04	M00005587B:H02	
M00004104D:C09	M00005399B:F02	M00005685A:A04	
M00004108A:D04	M00005400A:D02	M00005706D:A09	
M00004109B:A01	M00005403D:E11	M00005711A:H01	
M00004126D:B11	M00005406D:B08	M00005798B:C11	
M00004133C:B02	M00005411D:E05	M00005799C:C12	

ES51	ES52	ES53	ES54
M00004182D:H03	M00005415D:G02	M00005805D:E06	
M00004183A:D06	M00005417C:E10	M00005827B:H08	
M00004186B:E05	M00005419A:D05	M00005828D:C09	
M00004187C:H09	M00005419C:D09	M00005837A:D12	
M00004188A:E05	M00005443D:C12	M00006751B:B11	
M00004188A:E10	M00005447B:D02	M00006754B:D05	
M00004190A:C12	M00005448D:E08	M00006756B:B08	
M00004190C:G07	M00005450A:A02	M00006757D:E04	
M00004190D:A10	M00005450A:B10	M00006758A:B12	
M00004190D:G12	M00005450D:D02	M00006758D:C04	
M00004198D:H04	M00005451A:E03	M00006834A:C08	
M00004202B:F04	M00005456B:B07	M00006835B:F04	
M00004202B:G09	M00005456B:E03	M00006837C:G06	
M00004206C:G11	M00005460A:B10	M00006841D:A08	
M00004213A:H12	M00005465C:H02	M00006855C:H02	
M00004214A:D03	M00005466A:F12	M00006855D:H02	
M00004218D:F12	M00005468B:D04	M00006859A:F06	
M00004249C:E12	M00005470B:E01	M00006860B:H01	
M00004249D:G02	M00005473D:E10	M00006886A:D06	
M00004252D:A07	M00005483A:F05	M00006893C:B02	
M00004253D:F09	M00005483D:A02	M00006893C:F02	
M00004257C:A08	M00005487A:H01	M00006895D:E10	
M00004262C:C01	M00005489A:F06	M00006917C:E07	
M00001339B:E05	M00005493B:A12	M00006919B:C03	
M00001341A:A11	M00005493B:E01	M00006923C:B01	
M00001346A:B09	M00005497C:C10	M00006926A:H11	
M00001346B:A07	M00005505A:C08	M00006934A:G02	
M00001346B:G03	M00005508A:H01	M00006936B:E09	
M00001346C:B07	M00005510B:D06	M00006936B:F10	
M00001348A:G04	M00005528D:H06	M00006937B:F07	
M00001348D:H08	M00005534A:G06	M00006937B:G09	
M00001352C:E01	M00005539D:G07	M00006939B:E05	
M00001362B:H09	M00005571A:E11	M00006953D:H11	
M00001370A:B01	M00005619C:H10	M00006980A:F02	
M00001370B:D04	M00005625D:C03	M00006986C:G11	
M00001374C:C09	M00005626A:B11	M00006989B:C11	
M00001376A:H02	M00005635B:A06	M00006990B:H09	
M00001378B:F06	M00005635C:F11	M00006991A:E07	
M00001380C:D10	M00005636C:D11	M00006991D:G07	
M00001383C:C07	M00005637D:C05	M00006995C:A02	
M00001384A:C09	M00005641B:E02	M00006997B:E06	
M00001391D:A07	M00005645D:F08	M00006997D:B03	
M00001391D:A09	M00005646C:B09	M00007006D:D04	
M00001396C:G02	M00005646D:B03	M00007010B:C11	

ES51	ES52	ES53	ES54
M00001397A:F10	M00005655D:C04	M00007010B:H03	
M00001397B:E02	M00005703C:B01	M00007012B:D07	
M00001397B:H11	M00005720B:D09	M00007031C:D01	
M00001399D:F01	M00005722A:E09	M00007032A:F11	
M00001400D:B08	M00005762D:A01	M00007033A:H05	
M00001402C:E09	M00005783A:C05	M00007033D:F04	
M00001406A:G12	M00005812C:F10	M00007036A:D02	
M00001406D:B06	M00006581C:D02	M00007037B:D04	
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We Claim:

1. A library of polynucleotides, the library comprising the sequence information of at least one of SEQ ID NOS:1-2702.

2. The library of claim 1, wherein the library is provided on a nucleic acid array.

3. The library of claim 1, wherein the library is provided in a computer-readable format.

4. The library of claim 1, wherein the library comprises a polynucleotide corresponding to a gene differentially expressed in a cancer cell of high metastatic potential relative to a control cell, wherein the control cell is a normal cell or a cell of low metastatic potential, and wherein the sequence is selected from the group consisting of SEQ ID NOS:1213, 1538, 1466, 1356, 1383, 1158, 441, 1338, 1426, 1547, 1313, 841, 1534, 1503, 829, 1408, 1447, 1389, 356, 1492, 1543, 799, 1437, 1251, 972, 1482, 1299, 109, 1558, 1355, 1548, 250, 919, 358, 1525, 1157, 150, 651, 1298, 57, 625, 1322, 36, 621, 215, 561, 247, 199, 998, 502, 1382, 1181, 1309, 1157, 1260, 1185, 1525, 248, 87, 698, 57, 924, 1249.

5. The library of claim 1, wherein the library comprises a polynucleotide corresponding to a gene differentially expressed in a cancer cell of low metastatic potential relative to a control cell, wherein the control cell is a normal cell or a cell of high metastatic potential, and wherein the sequence is selected from the group consisting of SEQ ID NOS:248, 726, 14, 699, 763, 20, 79, 715, 991, 1199, 707, 1128, 891, 1146, 731, 1518, 340, 949, 1247, 1185, 924, 822, 728, 341, 1527, 698, 949, 744, 973, 1268, 1114, 1032, 109, 973, 91, 982, 1267, 93, 1556, 1251, 1206, 812, 1254, 1220, 766, 1156, 1007, 981, 762, 876, 1234, 1183, 1044, 785, 1069, 770, 778, 792, 822, 1258, 1224, 984, 841, 339, 1213, 1201, 1192.

6. An isolated polynucleotide comprising a nucleotide sequence having at least 90% sequence identity to an identifying sequence of SEQ ID NOS:1-2707 or a degenerate variant or fragment thereof.

7. A recombinant host cell containing the polynucleotide of claim 6.

8. An isolated polypeptide encoded by the polynucleotide of claim 6.

9. An antibody that specifically binds a polypeptide of claim 8.

10. A vector comprising the polynucleotide of claim 6.

11. A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as ATCC accession number xx, xx, xx, xx, xx, xx, xx, xx, or xx.

12. A method of detecting differentially expressed genes correlated with a cancerous state of a mammalian cell, the method comprising the step of:

detecting at least one differentially expressed gene product in a test sample derived from a cell suspected of being cancerous, where the gene product is encoded by a gene corresponding to a sequence of at least one of SEQ ID NOS: 1213, 1538, 1466, 1356, 1383, 1158, 441, 1338, 1426, 1547, 1313, 841, 1534, 1503, 829, 1408, 1447, 1389, 356, 1492, 1543, 799, 1437, 1251, 972, 1482, 1299, 109, 1558, 1355, 1548, 250, 919, 358, 1525, 1157, 150, 651, 1298, 57, 625, 1322, 36, 621, 215, 561, 247, 199, 998, 502, 1382, 1181, 1309, 1157, 1260, 1185, 1525, 248, 87, 698, 57, 924, 1249, 248, 726, 14, 699, 763, 20, 79, 715, 991, 1199, 707, 1128, 891, 1146, 731, 1518, 340, 949, 1247, 1185, 924, 822, 728, 341, 1527, 698, 949, 744, 973, 1268, 1114, 1032, 109, 973, 91, 982, 1267, 93, 1556, 1251, 1206, 812, 1254, 1220, 766, 1156, 1007, 981, 762, 876, 1234, 1183, 1044, 785, 1069, 770, 778, 792, 822, 1258, 1224, 984, 841, 339, 1213, 1201, 1192

wherein detection of the differentially expressed gene product is correlated with a cancerous state of the cell from which the test sample was derived.

SEQUENCE LISTING

<110> Williams, Lewis T.
Escobedo, Jaime
Innis, Michael A.
Garcia, Pablo Dominiguez
Sudduth-Klinger, Julie
Reinhard, Christoph
Giese, Klaus
Randazzo, Filippo
Kennedy, Giulia C.
Pot, David
Kassam, Altaf
Lamson, George
Drmanac, Radoje
Crkvenjakov, Radomir
Dickson, Mark
Drmanac, Snezana
Labat, Ivan
Leshkowitz, Dena
Kita, David
Garcia, Veronica
Jones, Lee William
Stache-Crain, Birgit

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ncagagtgca tgttggcgcg tgcgtgntag natctcgnag gtgttgcngc cangagttan 180
ccagagtcaa tgccnnacac atagtatgag aagagcactt tntaagagnt naattnattt 240
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atnantnnta ncnggnaagg gnaaaaaaag ggnggttant tnggnggttt tnnaanaccc 240
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ccacacccag cctttttttt tttttttttt gnaaanaaag ggncnaattt tnnccaaaan 180
ccnnggnngn aggnnngggc ccaantnngg gntaatngaa ncntcnncnt ccagggtncn 240
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ttnaaaattn ntngggggcn ttntttcnaa ngnnaaaccn tttatntncc cttngnggnn 180
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<210> 18
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ttaagactga aatattagag gataaaacta gtgacatgaa aaaaatagcc ttggtgactt 120
gtgcatcttt tgtggagccg gaaggtaatt tttttaattt cacgcactcg ctttccttct 180
ggagagtctg aaaggttgct gagatattag cactgatcct taatgccacc tcagagagct 240
ttgggatcag gcggcacttt gacaggcgat cacagngttg naaatnaggc actccaggga 300

<210> 28
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 28
gggctttgaa gatagctttg aggaagaaga ggaggaagaa gaagatgatg actaagcagt 60
actctgaatg gaccacagtg tttgcacata tttgcaattt tttgctgntt tggaagngta 120
tcataaacca gantcagnac agaactgatg ntgagggagg ggnacgntct cttttgtatt 180
ttatttnncn cnntnnnntg ttctngnctg nnnntncnat cnctntngnn tttnncctnt 240
aatnnanntt tttgtnnnnn tc 262

<210> 29
<211> 300
<212> DNA
<213> Homo sapiens

<400> 29
ctcgcgcaat gggctgcctg tggacatcac caaggtgccg cctgcccctg tcaacaagga 60
cgactttgcc ctggtccagc ggcctggccc gggtctgtct caggaggccg cccggcgcta 120
tggtgaactc accaagctca tacggcagca gcacgagatg tgcctgaacc actcaaacca 180
attcacccag ctgggcaaca tcactgaaac caccaagttt gaaaagttgg cggaggactg 240
taagcggagc atggacattc tgaagcaagc cttcgtccgg ggtctcccca cgcccaccgc 300

<210> 30
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 30
aggatcagga agtttgtgct ctctgcgtgg ctaagttttt cacctactag gacgggggag 60
gtgtgggagg ttttggtgtn cttctaagat acnnnacnag nttcnnnctg nttccccaccn 120
taacccagaa tnnctatatt atcaggcgcn natgaccact ttaacttacc gngnccgang 180
tactgnaatt nnccatanct ntgaacnnan natnnnttgt gaggattaca gcacttgcga 240
gatgantncc actgctgaaa nattcttngn gactctantg ttatnccctt taccctt 297

<210> 31
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 31
gcaaggtgca gtagctcacg cctgtaatcc cagcactttg gaggccgaga caggaggatt 60
gctttagacc aggagttcag gaccagcctg gccaacacag tgaggccctg tctacaaaaa 120
attaaaataa tcacttagaa aaatcaaata ttcttgaaaa agtttagact tgcaaatata 180
atatggggaa aatggacang cnaccnattn actctagttc naaaatacca agccgactgn 240
ctnncattaa gttnnagaag cnnaagnagg anttaacagc tccatganga ctnttgatga 300

<210> 32
<211> 282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

<400> 32
tagaagaaac acacagaaca agcagcctga catgtaacag agcaggaagc ccccccatgt 60
ccacctctac ctcatttgt caagtcttca agagacctcc aggcccagtc actgtgaatt 120
cattcctctg ggtttaggca ctcacctccc cgccacccca gagaggtagc atattaaatc 180
attaacagaa tctaatataa nggggccctg tgattactgg gaacncgttc ttctgaatta 240
tatgcgngng ancentantn cntgnngnan gnnctttaaa gg 282

<210> 33
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 33
aggccttttc cccacttctt aaccttcact gagagggtgg ttggggtctg tttcactcca 60
tgtgtcctag atcctgtgct acagaccttc ctttctgtcc tcccgtcttg gacctcagtc 120
ctgggggctc caaagtgctg ttcgtgcagg tagtgtgatt acccaaccta ctgctganct 180
anccatttcc cgncccccg ggacacgttc tctctgccaa tngncttctt gnctgagctc 240

cccaagctcc atctgtcatg ctgngnagcc canntggcgt tcanaatngg tctggt 296

<210> 34
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 34
gctacagcca ttacagtcaa ctagatttga gtgctgccgc tggtaagtta attgaatagc 60
caagttatgt tgtccttacc caagtagaca gtggaaagga ataatggcan aggccatgat 120
gcgagtntgg ccncanccat gcatnccntc tgtngtgntc ttagttctgt natactctat 180
gttttangtt anttacctaa atcatntntg aatcangnnt nattttncnt tntatgtatc 240
nnanngtnta nttttntngt t 261

<210> 35
<211> 300
<212> DNA
<213> Homo sapiens

<400> 35
ttcaaatttc tgtgcccttc tctcctctcc ttggttctct cccatgtttt gtcaaacttc 60
ccacacccag ctccttaaac aaagggactg gctaggtcag gcagaggttg agtcaagagt 120
gctcaggtgt cccaggatga ctgtcaagag tggtggcagc tctcctatgt ctcagccccc 180
caggagcacc tcagccctgc aacggcatca aactgggtgg cacacactag tatggagcca 240
gaaatcagtc agtgggaata tgatgcaccc aattttacag tgactgtgtc ctgaaactcc 300

<210> 36
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 36
gcctacacta gtgaattaat ctgaaaggca ctgtgtcagt ggcatggctt gtatgcttgt 60
cctgtggtga cagtttggga cattctgtnt tcatgaggac tcacagtcga ccntcatgtt 120
actttctttg nnnnactctn ttnccttgnn tgactgcntg ctngatnttn tntcntnncn 180
caaangtngc cnnntttagt nntncgttag agatncangn gnnggntnnc tgttaaatnt 240
cgnnnnnnct tnnncanatt c 261

<210> 37
<211> 300
<212> DNA
<213> Homo sapiens

<400> 37
catgtggtgc acaggtcgga tggtaaattt cagatctttg cctatagagg gaaagttcct 60
gtggttgtga gttacagacc tgccagggga gtcctgcagc cagacaccct gtccattgct 120

agccatgcat cattaccaaa tatatggacc gcatggcaag ccataacccc cttggtggag 180
gaactgaatg tcctacttca ggaatggcct ggactgcact acaccgtgca cattctctgt 240
tctaagtgcc ttaagagagg atcgcccaat ccacatgctt ttccagggaa atctgctgtg 300

<210> 38
<211> 300
<212> DNA
<213> Homo sapiens

<400> 38
aaaatgagag tattttcttt tctcccttca tttacctggg tgttttggct caccaaagag 60
ttgtgttctg caaatgtctg ggcaatccat ggagctaaac tggcattaga gtcaagtaac 120
actcctcctc tctccctgtt cttttcctta aaatcttcaa aggcattggg ggttttacct 180
tagcaacttg ctatttcgtc ttcttagttt gaaccttcaa atatagctgg atataataaa 240
atgctcctca aatgaggaag taccagaaag accagatgca tggtctcatg cttcccttgt 300

<210> 39
<211> 300
<212> DNA
<213> Homo sapiens

<400> 39
cttcagcata caccctcagg gagtcacagc cttccaacgt ccattcatgg agcccaggtc 60
caaaacctgt gatccgagaa taggataacc cttttctgcc catagggtgt tttccaaaga 120
cctttcattg ctctgggtta cgtgggaaac aacaaaacag aaccatcccc cgcactggtc 180
agctgctacg ggtcacgcca gggaaaagtg tggactgatg tatttcgttg tttaccatgt 240
ttctagccag agctaatttg aaaataggta tcccaagaac cagactgcag gagtatccca 300

<210> 40
<211> 300
<212> DNA
<213> Homo sapiens

<400> 40
gaggaactcc ccaggcattc tgtgagatgg tagtgttcac agcgctgaca gatgtccctt 60
tgacacagtc ctggggtctt ctctgcacaa cagaaaggag ttttgtgaca aagttgatgg 120
aggaggttag gtatttaatt aggactagcc agggagggca gggactctgt taagcagtga 180
atttgtcaaa attttacttg taccaggtgg gaagataact agctgtggaa gcctgttctg 240
agatgccctg ccatggccaa tgactggtta accacaaggg tcactaaaag agagggtttc 300

<210> 41
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 41
ggaacctcac ctgtggctca gctcacccca catccgtttc tcattacgtg taaataaact 60
gtcagagctg atgttacagc ttttacagtt taaagcattc ccctcgtctc tagttccttt 120
tttnttgntt acatagtntn ggcactttcc ctgattcacn anctttcngg gnngangagn 180
ggagnaggng gggcgtnatc nggtgnattn nggngngnnn gnngtgggaa ggntntggcg 240
ngnngcngnt atntgggagn gtgggnagtg gtagggntnt antnngtgac ntggattg 298

<210> 42
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 42
gcttgttctg gggaaagctc atataagtat ggattttatt cctcaactag taggatacca 60
atactggtat tgaaacttgg ggaaaataac tggagatacc agtgcagcta tttaaagctg 120
tagcaagggc tgcaatcttg cggagatttt aaagagaagt tttaaagttt ctaatactga 180
tgcctctttt tggtaaatac aagttttata aatcctgccc tgggatcctg attccccatt 240
aatcaagatt tgtcagactt caccttctat aattagaaaa cacngttata agaacagt 298

<210> 43
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 43
cttgaaccta ggaggtggag gttgcattca actgagatca taccacttca ttccagcctg 60
ggtgacagag caagactctg tctcaaaaaa aaaaaggaaa actntgngan ggacatttgt 120
tnagtaaanc cnttcagtat tnatccntcc tttccccnca gcagctttnt ttcctgtcaa 180
ctaaaangga ccaggangta ataaatncnt tttggnggga ctaggccacn ccaantntna 240
atcntctccc ntttncctta nacatttaaa ttgcaaggcg ggnccctctg gngctcaaaa 300

<210> 44
<211> 163
<212> DNA
<213> Homo sapiens

<400> 44
ccgggccagg gtaacagaat caaccctgcc ctgccctgcc tgagcctggc accagatcac 60
aagcaacaga agtcttctgc cagctgaaaa gctgagtgtg ggacagcagc actgaggaag 120
ccctgacacc ctagtcccca ctctaagcag cccaccacta gag 163

<210> 45
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 45
ctcaggcagg gagaaaagga ggcagtgggc acagccgtgg actatggcta cttcagattc 60

ttccaggacc ggaggattgc ccgctgtccc ttccacacgc tgatgccanc agagcgcgag 120
acgctcctgn cnccggaann ctctcttggn gtnantgnnt nttgcttcta tttttantng 180
nnnnannnct nttggttggn ccctattttt cncncngcct cnnggnanct ttttttttacn 240
nngttntctn ctncngnncc aatnnnnttt ccttttt 277

<210> 46
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 46
gaagagcttc tgcaggggct gagcagaccc cagggcctct tagccaatcc ccgggcctgg 60
tgaagcaggc gaagcagatg gtcggaggcc agcaactacc tgcacttgcc gccaagagtg 120
ggcaatcttt taggtctctc gggaangccc cagntttcct ccccantgat ganatgatna 180
tgtnncttnt nanntgcntt gtnttatntn tnncttntat ttnntatctt nttttcnant 240
ttnttttttt gnttccgtnc tnnnttnttn tnggngnttn tcttnnttgt tgt 293

<210> 47
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(258)
<223> n = A,T,C or G

<400> 47
tttctaatat gattacatga gtctacttta taaactggta taggctatgt aattagcccg 60
taagttactt aaaggaccag gggacctaat ttttgtcagt tttccagtca cattggtgcc 120
attcaggact ccagctgttt acaggaaata tgtacttatc anaatagtat ttttccttga 180
ggnatnncan gatntttgcc tcattaccac ttgggnatta ttngntngca agnnngntaa 240
ncngcannnc cattgcta 258

<210> 48
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

<400> 48
gagagagagg gcctgctgga gagcataggg tctggaacac caggctgagg tcctgatcag 60
cttcaaggag tatgcaggga gctgggcttc cagaaaatga acacagcagt tctgcagagg 120
acnggaggct ggnagctntn agggcttnnt gctntntaga tttcntatnc ncntcnnttc 180
tntnttttac ctttntttct actncttnnt tttttntttt ntgctnntnt ntnnnntttnt 240
nnttnnccn nttntttctn tncntcatct t 271

<210> 49
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 49
aattcggcct ctctagagtc ttccccaggc cactccttca cactccttac tagcagcccc 60
tgcttagcct ccacactacg gcctggtgac ctggtccatg gtgctcgccc tggtgcttga 120
agcctggnaa gcgnccangg ctgtggttcn nggatgtngc ttnagntaan angnnggtaa 180
cccgggaann naattnanan tnnanaagng gggggctttn nttntattnc cnaaccntnt 240
nctttanccn tannntttgg cngntgnaaa aggtattcnn antnccttc c 291

<210> 50
<211> 300
<212> DNA
<213> Homo sapiens

<400> 50
gagttctaca ggtggagtgt ggggcccaga aggggctcag gtcttagggg tgtcatctga 60
aaaaacagag atggtgatgg gacaccagtt ctaggagccc tctgcatggc cactttctgc 120
ctcagctctt ctaaagcatt tcttctgttc ccttccattg ggtaaccac tgatctgtct 180
tcccaaaaac tgagtcagaa gttggacttt gttacttggc tcatctacat ttaagatata 240
gtcagaaaaa aaatgcagtc tttacatctt aagaaagctt acatgggcca ggcgcagtgg 300

<210> 51
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 51
gttgttgtta ccgtgtgcca atgtgtccca tgtgggttgt gccaggtaga gaaacaggaa 60
gtcaatcatc tgtgacagtc tctattctgt cgttttgctc cttggtattt gatttgcact 120
atatttacnt ganncctgtt cactgtttaa aaccngaggn catcttnana ggcattggag 180
acctggcttc nnaatgntgt cccancantn ctgnctnaan ctcctgntca tntcccnttn 240
ntgnngtgnn ccannacnnt tattttnaat tngtatnnta atntanacnt gtttctcccc 300

<210> 52
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 52
agaacacaaa acttgaaaga agttttatgc gtgtgacagt gtatggggct gcagttggtc 60
tccctggagg ggacttccac acctcctgcc tttaggccat gggtggaang tgctcnttgt 120
tgtctccttt nttccctttt gtngcgntnt gnnnntnttg ntttnntntt ttagtttntg 180
ttttcttctn nttntntnga ncttnngttt ntntnnnnnc ttttttctng cntgtngnnt 240
ntctttngtn natattnnnn nnngttgcnt nttgggntcg tctnntnttt tcta 294

<210> 53
<211> 165
<212> DNA
<213> Homo sapiens

<400> 53
gtggctttta tcatgcatga caaacccctg gctttcctgc cagatggtag gacatggacc 60
ttgacctggg aaagccatta ctcttgtgtc tgctactgcc ctcccacagt caccccaata 120
ttacaagcac tgccccagcg gcttgatttt ccctctgcct tcctt 165

<210> 54
<211> 300
<212> DNA
<213> Homo sapiens

<400> 54
ctttgggaca gtgtgagtgg agcttgtgtc cagttgtgca cacggacacc cggaaacctc 60
tcattaggag aagccactgc tgcgcaccct ggagatgggt tttgaccctg ggctcccgtt 120
aatgttgttg tggctccaga tgcctcagaa ataacttcca gagtcaacac catctgcgga 180
agtgccgtga gacggtgcat gggctggaga cagagacagc cggcgccgaa catacctggg 240
gctgcccgtg caaactgggg caagcccttc agcctccatg tggctgcttt actatggaga 300

<210> 55
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 55
ctgtgactgg ctgagctgct gtggccgggc tgggcagtgt gccccaacag ctcagtgctt 60
tcctgacact ccagtgtctg ggtggttga ggagcgagta ctctcttnct tccanaccaa 120
gttcctncct ngggtttgcc ttganacgtn ttatgntttt nnancntatt nntctnnnnt 180
atnanttttt anatnntntn tnncttatta nantnnattt tnttantatn tatagnnnta 240
tnnnntnttn aanatatnat nata 264

<210> 56
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 56
ccccagattc ccaatcccac cgcaatgttt ggcaagccta ggactgataa gtagctctga 60
tagaggagct ggtggctttt atacttcttc ctgggttttt gttggggttt gttgtttcgt 120
tgttttttgt ttttttttt gttnggttgg gnaagnattg nnttnnacgn gngctatttt 180
cagtaccana gtaancncaa ggtttnaatc nagttgcata aaacaccttt gcatagctat 240
tnaatngccc aangtaaaac tttaangcca tttcnaangc tttaattcat ttttgaagta 300

<210> 57
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 57
gtgtcccaag tgtccggagc aggcggcaga ggcctcagtg cggcaaacac aggcccagag 60
cctgtgtggc accagcagca tcttagagcc ccaggtatat gctgagatct tatctcacgc 120
tgtctccagt tgtctgttgn gacnaanngn tgnnnctant ncnnnacacc ttnnnanttt 180
gtatnnttgc nttnnntntn tncnncttna ntctnngttt naccngntat gctnngnnnt 240
tntnttactt nannganata gtccacattc gctactct 278

<210> 58
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 58
gctaagcctt acacacttgt cctgtgcctt tgttgtcgta tccctatgta aataccttct 60
ccaccttccc attccttcat ggatgacttc ccagaccttc ccactcatct tttgaatgtg 120
tttattgctg acttggcaat gcatcaaaat cttttttttt ttnggccncn ggnntaacng 180
nntnacaggg ggaanncccc nngaaancgn aaaactnttn gcanctnang tcnnnccngn 240
atnttcangg ncagggatna ttggtggcna nagttttnan gncnntaang anccttttaag 300

<210> 59
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 59
aaaaagaagc cagtaaaaga tcctgagatg gattggtttg ctgatatgat cccagaaatt 60
aagccttctg ctgcttttct tatattacct gaactgagga cagaaatggt cccaaaaaag 120
gatgatgtct ccccagtgnt gcagtttttc tcactatttn ctgcttantn tannntactg 180
ngggngangc ttantgctgg ntttantgag ngntantatt nctgnttntt tgcgncntgn 240

ntnnnanttn ttttcagttt cc 262

<210> 60
<211> 274
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(274)
<223> n = A,T,C or G

<400> 60
aaccggacgg acttgcccat cggccctcac gacacgcgtg cagtgggact ctagccaagg 60
cggtggccga gccatcatta caatttttct ggagtaaagg atccacggtg ggacatcaac 120
tggcacttac tctgtttagg aacttgagtt gaatcatttc taaacttgtc ctttagacca 180
cgcctagggc agcaaattcc acttcctaga actgcaaacc gggagaggat gtagntagat 240
tntggcatnc tgccccggct ctttgaggga aaag 274

<210> 61
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 61
gaaggatctc cttggttacc aaagacactc acatctttaa ttttggtgtt tcgatggaag 60
cacaggatat aattctctgc ctccttaaat tgttgaacgt gctgcaaagt ttgacattta 120
gaaatagaac tagggctgtg ggctttgtt ccgctttagc ggctttgttc tntgtcnttg 180
cnnnctcact tnngtgcntn gagntcagnn natattatac annantgnnn nnncnnannc 240
nttangcagt nttgcagggn gcgacact 268

<210> 62
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 62
ggagaccgtc actccaggtg cattctggaa gcattagacc ccaggatgga gcgaccagca 60
tgtcatccat gtggaatctt ggtggctttg aggacattct ggaaaatgcc actgaccagt 120
gtgaacaaaa gggatgtgtt atggggctgg aggtgtgatt aggtaggagg gaaactgttg 180
gaccgactnn tgccccntgc tcancactga ncnctctgan tgnttnnang cttnnttnnt 240
tnnatacnnt atnncnattn ncnntttttn nntntttntt tntttttt 289

<210> 63
<211> 270
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 63
aacactttct accacactgt gggaagcatc gataaacagt cataataatt atcattctga 60
gtcactgcaa gcgtggggtt ggatgctggc tctcacagta tcctgtgtag ggaccatgag 120
cagccatgcg cncctncang cacggncgag ctcaaccnga agancnngcg tgctccctgg 180
caggagcagg atgcctgacc acagantgat aattattatn acnggtatng nngcttgcca 240
cagngtggnn gaaaggnntg aatttcactt 270

<210> 64
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 64
gaataaggga aggtttggag tcctgggtga ttgcttggga tgccagcagc atttgagacc 60
aaacaggggt gtgaagatgg gtgggtcagc tcaccttgca gagtgtagca taaatgggca 120
cagccagaaa attgcttctt cctccaaagc tctctgattc aggaatttgg ggcntattgt 180
ggaacgttat nacattcttg tctctgngct tactnttccc gccattcatt acgaacnann 240
agtttnnaac gnngttctgn tntcaaagnc antgcatctn nttatcatac t 291

<210> 65
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 65
attgtgttga gatccaccgc tcacacgccg tacaccaccc agtggcttca ttctggctta 60
gccgcagagg caagaaaggg accccacttg ctcccatgcc cacctcaaga aaaaacataa 120
aacaattttt tttaaaaaag aaaagaaatc tacctcagtt gacaggattc nacctttang 180
gtntcttnnt cttttnngtt ntngcngnct tntctnnttt tcttntnata ttctttnnnn 240
ttntntnnct tnntgcnntn nnncttgnnt tnntnnttnn ngcttcntcn tttttatttt 300

<210> 66
<211> 300
<212> DNA
<213> Homo sapiens

<400> 66
gccttttcct ccgacgacca ggagccctac cctgtgactg atatttcgga cctgatccgg 60
gattcctatg agaaatttgg agaccagtct gtggagcaga tcgagcacct acgttacaag 120

cacaggatca gggtcctcca aggccacgag gacaccacaa agcagaacgt gcttcgagtc 180
gttatcccgg aagtctcaat tcttcctgaa gacctagagg agctctacga cttattcaag 240
agagaacata tgatgagctg ttactgggag cagcccaggc ccatggcctc acgccacgac 300

<210> 67
<211> 300
<212> DNA
<213> Homo sapiens

<400> 67
atcatgctgc tagtgttccc gctactagtg ctccgttagt tttaaatcat gttccaactt 60
gaatttgagg tcttttgact ttcgttggct ttttgtcagg gaaaaaaacc tgttagggac 120
agggtttcac aattcctttt atatttccat tcacatgtat ttacaaacgt gtgcctggag 180
tagtaagtac acaataagtg agtttccagc tgtttttgtt tcggaaacaa aaaaaacaaa 240
acaaaacaaa acaaaaaaac aacggaaggt gaatggaatt gtgtttgtaa cattaaactg 300

<210> 68
<211> 300
<212> DNA
<213> Homo sapiens

<400> 68
ggcagacttc tcatccgtaa aatcaggaag ataacatgat tccaagggcg ttcatgagga 60
ttaaaggaag tcatgctcct aatttactgc ctggcacaca gacagtaaaa tgctcaatac 120
atttatggaa ggaatgaagg actctggcag aaaaacaggt cagatgtgtc tgctgtggac 180
aggtggctct gtcggtgccc ggtgagtgcc ctgggagtct ggcagtcacc tcctccgcag 240
ccgtgtcccc aggctcacag gagccacctc aggtgggaag ctctctgcca gccttggaag 300

<210> 69
<211> 255
<212> DNA
<213> Homo sapiens

<400> 69
gctgcagcaa aaccagagaa tttcctcaag tggcctgtag gctccttgtt atcttatgcc 60
cccacccctc cctcaacaat atgagtgatc cagaactggc ccaaacacct cagctctggt 120
cccttttgc ccttcttggc cttactctgt tgttcaaagc cactttggat tgcttggatg 180
cttcgaacag ccatgaaaag tagcctgcct gtggcattta gaggccaagc aattgacaga 240
aagggtttct tctac 255

<210> 70
<211> 300
<212> DNA
<213> Homo sapiens

<400> 70
attgtgcacc tctaaccctc tctagcaacc ttattgatac cattcagtgc caatattctt 60
ccaaccaggt tgaggacttt tgatttgctg agaatgaaat tctgcatatc tttgcttgtc 120
actaatgcct gtctgctctc tgcctcacct tcttgtccat tggtatatgt ttggcactct 180
gagagtatac agcatcaatt cattcatatc tccaatactc tttcattaag tctcagttgc 240
ttgccagcac agacaaggta ctgcccaaag aagtccttgg aaaacaggca agatatatac 300

<210> 71
<211> 300
<212> DNA
<213> Homo sapiens

<400> 71
agatagtgaa ggacctagag gcttcccacc agcacagtag ccctaatgag caattgaaga 60
aaccagtaac cgtgtccaaa ggcacagcaa ctgagcctct catgctaatg tctgtgtttt 120
gccaaacaga gagttttcca gcagaaagaa cccatgggag caacatagcc aagatgacaa 180
acactgggct gcctggtcct gccactcctg cttactcata tgcaaaaacc aatggccatt 240
gtgacccaga gatacaaact accagggagc tgactgcagg caacaatgta gaaaaccaag 300

<210> 72
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 72
ggcaaaaggc atctgctgga gctggtgacc ccagcttggt gcccccccaaa gccagagtac 60
gaggctgaga ggatgcaggt gtcctcctag gaggtttgag tcagaaggca cgaggcagaa 120
gcagtggggg aggactccct cagtagagcg aggaggaggc ccctcatcca agaggaggtt 180
ggagcacagg ggggtctagg tttgcagttt cnggaccggn agctnangng tcccanggcc 240
tttnttntgt ttnganaatt t 261

<210> 73
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 73
gtgcccccag ccagggtgag ccccttttccc agaactgcct caccacccag cccttgtgtg 60
atcctcatgt ctcctgcccc aggaccacat cctgagcttg ggtgccgact tcaccttgat 120
ctcccctcggc agcatcagga gaaagtggag cggntgttan aggtgtcang tgaannttnc 180
ttgngntttc ttgntncttn ncntattatt tttngttant atncntngnn tntttaantn 240
tntttttant nttnnntntt tnttntttnt tctnntttat tgtntnntat tnnttttttt 300

<210> 74
<211> 300
<212> DNA
<213> Homo sapiens

<400> 74
agacgttgca gcaagtggac aagtggccgc tgtgcgggcc cctcgcttgt agtgagctgt 60
tgcagcttac ggtccgttcc ctggaggggg ggaggagtga gaggttgtgc agcatcaaag 120
gtgctgggac atcccagggt ggtgagatcc atccacgatc cagctccggt ggagaaaggg 180
cccatgtcaa gccttgttct gcaccccaag cattggtggt aggactgggt cctggctgat 240
cgtccttgtt cccagtgggg tacatgtgag cccctgccag ggccaagtcc ttctcccgaa 300

<210> 75
<211> 247
<212> DNA

<213> Homo sapiens

<400> 75
ccgtgcctcg ctttccctgt cccccgccct atggacaccc ctggctcagg ccagtgtgct 60
tgtcccagca tcgcgctcat ctcctgtttt tatttgatgt tacagatttc atttcattag 120
gaatgagtgt ttcctccccg acttttgcct gcattatttt gccagctcct ccctggaaaa 180
gggcaggggc ggacactttc ccagcctccc accgtgctct gttcctagtg gcacctgccc 240
cagggtc 247

<210> 76
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 76
tgcttggctt cggggctgac cgccggtccc ctttcttctc accacagtgc ccatttttca 60
tccagggaga acctcggggc tgggacacct cctggccctc accctgggtc atgtttacag 120
tcctcagtgc cccacaccgg tggccccctg aggacacctc caccctgacc ttgattttcc 180
caaacgctgc ctcttggtga cagactcagc ccaaaacccc ttccttctgt ctctggagac 240
ccttgagctt ggggaaatat ggaaggngtg tgtgtctgca atcaaggcct ctgcagctca 300

<210> 77
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

<400> 77
gcctgcataa ggtttgatta ctcaggagtt ggaagttcag atggtaactc agaggaaagc 60
acactgggga aatggagaaa agatgttctt tctataattg atgacttagc tgatgggcca 120
cagattcttg ttggatctag ccttggaggg tggcttatgc ttcatgctgc aattgcacga 180
ccagagaagg tcgtggctct tattggtgta gctacagctg cagatacctt agtgacaaag 240
tttaatcagc ttcctgttga gctatnaang gaagtcatat gnnaggtgtg tg 292

<210> 78
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 78
gctttgcaaa ccacatacat tattatcact tacagtctgc agaactactg aattccaagc 60
tgcctcggtg gcaggagacc tgtgttgatg ccatcaaagt gccagagaaa atcatgaata 120

tgatcgaaga aataaagacc ccagcctcta cccccgtgtc tgnaactcct caggcttacc 180
catgatcgag agaagcnntg tggtttggnt ngaanncgac tcgnnntcat tgctnagggn 240
gngaggcgtt tcgnnnttag gcttaagnta ttgtggg 277

<210> 79
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 79
gccaaggctg tactgcggat gctcctgctg ctctggttca aggctggcct ccagacttca 60
ccccctatcg ttccactgga cagagagacc caggcacagc cccggatgg tgaccacagc 120
cctggcaacc atgagcagtc ctacgtgggg aagcggtcaa accgggtggt gcgaaccctc 180
cagaacacgc cgtccctgca ctccaggcac tggggagctc cccagnancg ggagggacnn 240
cagcancagn atnncgannn gctnagtgcg ancnncaccc ncttggngct gcaggatacc 300

<210> 80
<211> 300
<212> DNA
<213> Homo sapiens

<400> 80
gagcgacgaa cttctgagac aggtgtgggt gcgagggtcg gtagggtcat gggattggga 60
ccgaggtgtg aggagggaat ctgcaattcc ttgctacaca gagcgctggc aacttctgac 120
aggctgtttc tggggtatgg gctgcctcgg gttgttgctg ttacaaggaa agaaaagagt 180
tcccctgccc accgcctccc agccactggg ctacctcctg gcaggaaatt tgcaaactga 240
gtttaacaag ttaggatcag cagagggtag aggagggccc tggcagatgt ggggtctaga 300

<210> 81
<211> 300
<212> DNA
<213> Homo sapiens

<400> 81
aattcggcgc ggtgagtggt gagactgcct tgggcgggtt accgggcatg actcttcgtg 60
acgattctga gacccccccct tccccccgaa ctcctccagc ccgcagagtt ctatctccag 120
gtggaccgct tcagcctgct gcccacggag cagccccggc tacgggtgcc tggttggtaa 180
gtgatgcctc cgcccaggag ccctgctctg tctgggtgag catagcccct ctgcagctgg 240
agggtagaac aaggaaggcc tgaggtagag ctgggaggga gcatgggtag ccttggatgg 300

<210> 82
<211> 300
<212> DNA
<213> Homo sapiens

<400> 82
ggaggatgtt ggcaagcagg tgtggcgggg cgccctgctc ctggcagact acatcctgtt 60
ccgacaggac ctcttccgag gatgtacagc gctggagctc ggggccggca cggggctcgc 120
tagcatcatc gcagccacca tggcacggac cgtttattgt acagatgtcg gtgcagatct 180
cttgtccatg tgccagcgaa acattgccct caacagccac ctggctgcca ctggaggtgg 240
tatagttagg gtcaaagaac tggactggct gaaggacgac ctctgcacag atcccaaggt 300

<210> 83
<211> 300
<212> DNA
<213> Homo sapiens

<400> 83
aggcgcggtg ccccagagtg gggtgcctgc actctcagct tccacaccct caccctaccc 60
ctacatcgga caccccccaag tatgtagggt gggcagaagc cacagtcgcc gccgccaggg 120
gcttgctcct ggctctgtcc tttgcttccc tccgtcctcg ctcagttgtg atccagcagc 180
ccccctcccc actgcctccc cagctctcag tgaccccgac tgtctcctga cttagccgag 240
cccccgagac accttgagga ggccgctcct tcccagacac acccccacgc ccccactgga 300

<210> 84
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 84
gtgacttctg ctatccatgt tgaggttgca gaacttgaag ctaatttacc ttgtacatgt 60
aaagtgcatt ttcctgatcc aaacaagctt cattgttttc agctaacagt aaccccagat 120
gagggttact accanggtgg aatatttcnt tttgannctt ttnttcnnta nagtatncat 180
nttatncntn cnaatctnca ttnctganct anttanatnn cacttnaata cnttcncttg 240
anncntctct tnnnnnnntn nttctnntnn nnccttntan tanatcnntt tatatctctc 300

<210> 85
<211> 300
<212> DNA
<213> Homo sapiens

<400> 85
cgtagaggtt tgagaaatga cttgaagagt catgtgtgtt ggcacgttta tggccttctt 60
cagaggtcag acaagaagta tgatgaagcc attaagtgtt acagaaatgc actaaaatgg 120
gataaagaca atcttcaaat cttaagggac ctttccttac tacagattca aatgcgagat 180
cttgagggtt acagggaaac gaggtatcag ttacttcagc ttcgacctgc gcagagagca 240
tcatggattg gttatgctat tgcttaccat ttattagaag attatgaaat ggcagcaaag 300

<210> 86
<211> 300
<212> DNA
<213> Homo sapiens

<400> 86
ctacggtttc ccgtcaccaa ttttccttgg aattggacag atggcagcca ccataatgat 60
actatatgtg tccaagctaa acaaaatcat tcacttccct gattttgata agaaaattcc 120
tgtaaagctg tttcctctgc ctctcctcta cgttggaaac cacataagtg gattatcaag 180
cacaagtaaa ttaagcctac cgatgttcac cgtgctcagg aaattcacca ttccacttac 240
cttacttctg gaaaccatca tacttgggtg attttggttt tcctccattc ttccagtgtg 300

<210> 87
<211> 295
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 87
tggaggaagc agcagggaaa acctggcgct gcaaaatgtg caggctcgaa tacggatggt 60
cctcgcctat ctgtttgctc agttgagcct ctggtctcgg ggtgtccacg gtgggctcct 120
cgtgctggga tccgccaacg tggatgagag tctcctgggc tacctgacca agtacgactg 180
ctccagtgcg gacatcaacc ccataggcgg gatnancang acggacctca nggccttcgt 240
acagttctgc atccagcgct tccancttcc tgccctgctg agtttctgtt ggacc 295

<210> 88
<211> 300
<212> DNA
<213> Homo sapiens

<400> 88
atccaccgtc attccccaat accttagttg tagtcaacta actagatagg ctgccgaaga 60
tggtttaact gtgtccagct taactacagc caggctttgg aatgcctggc ctatgtctgt 120
aaatgaaatc taacaattta ttgtataacg ttgttaaaca tgaagcatga tgttggccct 180
ggataaaaca ttttaaattc tcgtcgttca taccagaggc tcagtaactg accggttgaa 240
agaaaactgt tcattgtaac ctaatgatgc tagttagata gcattagatt atgttagaga 300

<210> 89
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 89
gccttttgtt gtgaagttgc tcatcattta ggagtgttta attctaaaaa gccttcagcc 60
taagaaagct tcatctgtgg ggaccagaga cttgttgctc agggagttag tgatgggact 120
tgggcatctg atctgcaggt gacaagttta gttcaactga agttgtaggg aatttagaca 180
gttgcacatc attgccgttc taggggcctt gtagaaagat gaaacagttg tttttcattt 240
accagcacct ctcagttata naggtnatgg aacnttcnct tactttgnat catcattcct 300

<210> 90
<211> 300
<212> DNA
<213> Homo sapiens

<400> 90
acctttacct gcaacctggc tgagaatgtg tccagcaaag ttcgtcagct tgacctggcc 60
aagaaccgcc tctatcaggc cattcagaga gctgatgaca tcttggacct gaagttctgc 120
atggatggag ttcagactgc tttgaggagt gaagattatg agcaggctgc agcacatatt 180
catcgctact tgtgcctgga caagtcggtc attgagctca gccgacaggg caaagagggg 240
agcatgattg atgccaacct gaaattgctg caggaagctg agcaacgtct caaagccatt 300

<210> 91

<211> 300
<212> DNA
<213> Homo sapiens

<400> 91
ggatcctcca ggctgccggc tgggaaggcg tgggcgaccc ggtgtgtggc gcgcccagag 60
ccccgcgttt cagccctagg gaaggaagcc agttgaggga agttctccat gaatgtacgt 120
cacaatgatg atgaccgacc aaattcctct ggaactgcca ccattgctga acggagaggt 180
agccatgatg ccccacttgg tgaatggaga tgcagctcag caggttattc tcgttcaagt 240
taatccaggt gagactttca caataagagc agaggatgga acacttcagt gcattcaaga 300

<210> 92
<211> 300
<212> DNA
<213> Homo sapiens

<400> 92
ataagcagtg gctttcaaac cgtgtgctct aggactggct gggccttgga gaggcgtcag 60
tggcgccctg gggaaacagg gcaccagagc aatgggtgag gtccagcctg tcctgctcac 120
gtcagccagg gcacatccaa gtctgttgtc agttgactgt tgggttcctg gattagagtt 180
tgtgagggac gagggaggtt tttaaaccca cacaaacaca gcatttattt tactgcagat 240
actgtttgaa gtgctgtatt agttcgtttt cacgttgctg ataaagacat accagagcct 300

<210> 93
<211> 300
<212> DNA
<213> Homo sapiens

<400> 93
ccctttgaga tttctggctt tttgtaggga cctcagttcc attttcccaa ctcatgggtt 60
ctcaatacct taactatctt ttatttgtca aattccaagt cctcaactca cccaccacta 120
cctgacccac tgcagtcacc acaccaccct acccactttc ccagggatgc tttatgatta 180
gcttaaatac tcaccattct gatttgtaat gccgccccca ccccctttttt ttgacacctg 240
ggagtttcct tttctttctt gtaagatcag cattacacaa acaagcacat ttttcttatt 300

<210> 94
<211> 300
<212> DNA
<213> Homo sapiens

<400> 94
gctgcatctg caatgaggat gccaccctac gctgcgctgg ctgcgatggg gacctcttct 60
gtgcccgctg cttccggtgg gtgcaggtgg aatgttctgt gcgagagctc aagggctgcc 120
tggatccctg acttgtatcc ctttgttcca cagagagggc catgatgcct ttgagcttaa 180
agagcaccag acatctgcct actctcctcc acgtgcaggc caagagcact gaagacaccc 240
tggtcctccc ggaagggcag tcccacaggc agcggcaccc atttctgggc cccgccacag 300

<210> 95
<211> 300
<212> DNA
<213> Homo sapiens

<400> 95
gtgaggaaag aaatagtcag taaattgatg cgatccctaa aaagggcagc attgcagcgc 60
ccaggcataa gacgtgtgat tgaagatccg gaagataaag aaagtagact aatcatgttg 120
gatccctata aaatatttac tcatgattcc tttgagaaag cagaactcag tgttttagag 180

cagcttaatg tcagtccaca gatctctaaa tacaatttgg aactaacata tgaacacttt 240
aagtcagaag aaatcttgag agctgtgctt cctgaaggtc aagatgtaac ttcagggttt 300

<210> 96
<211> 300
<212> DNA
<213> Homo sapiens

<400> 96
gcttagataa gtcaaatgca gtagacaatg gatagtcatc acagattttt gtacatggga 60
cttcacatac cttaattgaa tatccatcgt gtacaaaata ttgctcaagc aatgtaggaa 120
tcaagggaat aaaagcttat tctgatatta tagagcatat aacagccatg taaatatgca 180
tggtatagag aaatcagttc tatgatggat gtaccagcaa agttgcagag cattatatag 240
agttgctttt gatatgagcc ctagaataaa ttgggataga gagggagttg gggaatttga 300

<210> 97
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 97
ttttcttgga gacattccag attgccatat tactttattt taaacagcgc tatgacttta 60
aatccaaggc tgctcggaag attttttag gtctctcata agcctattct tccctgatca 120
catgagtggg agaggtaagc ctnatttga angccctttc tgngnnnnna nannttcnnn 180
nccannnntn tnnngaagan tntttnngng tnnncanttg ccattnttcc ntgnnncnnn 240
nnngnnacag gggnncaant tnnnannccc ttttnggggt tcccaa 286

<210> 98
<211> 300
<212> DNA
<213> Homo sapiens

<400> 98
atctctcagg aaggctttga acaaatgaaa gcagcagcca tttcagcaag cgggggccac 60
acctaaggtt actcgagagt gaagattatc tcagaagttt agaatcatga cacttcgggg 120
aagataggat cagggatgaa tgggagacgg gggcttaagg gagagcttag aagtttagaa 180
tctaagagag aaagggtttg tttttgggga gagggattat gtatgatatt taatagcacc 240
tgcaaacttt aagatagctg gggggttctc agtaactaag gagggtcctg accctaaaag 300

<210> 99
<211> 287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(287)
<223> n = A,T,C or G

<400> 99
ctgcattgtc cactggacgt tttagtcata ttcagacacc agttgtttcc tccactccca 60

gacttaccac atctgagaga aacctgacat gtgggcatac ctcagtgatc cttaatagaa 120
tggccccgt gcttccaagt gtcctgaagc tgccagttag atctctaaca tactnnantg 180
caagataagn caagagantn accgagattt tgncnncgan annntactnn nnttganttt 240
gntgcnatnt antaactnct ggannnnnna ntntcnatnc atccccc 287

<210> 100
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

<400> 100
cttccttctc tataccctc tctatgtttt attgcataaa taggaaacat tgttgaaaag 60
actttcctgg taaactgttc tgaattttac gtttatcgaa atatctccaa agactcaatt 120
tagaacttta ttatgccctt atttattnaa catttnttng gaacnaacat gtatatngcc 180
cttangtngg cnnnngcnag nggtnanann ngngagntct naatgngngn nnaanngngc 240
ggnnggntcg gtnggnngna tgt 263

<210> 101
<211> 300
<212> DNA
<213> Homo sapiens

<400> 101
gtggccaagg gtggggccaa gactccacat agatccaggg gctcattcca tgatgctctc 60
atttcctaga gtcctccagg tgtacaggga attgtttcac tgacagacag gccaggatat 120
ctcataagct tcttgggcac aagttggagt ggtatgggtg gaattccagc acaattaggc 180
atatcgtggt tgggtgaaca caaccataca agggggagag gtctctacca gtggcctgtg 240
cagtcctgcc atgttctttc ctggtcaatg ttttaaatga taacttggaa tactactaaa 300

<210> 102
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)
<223> n = A,T,C or G

<400> 102
gtgcgtctag aggaaatgta ctgttttgca gataataagt attgatcaga catgcatttt 60
tacctctgct gtgggatttt agtctcatta ctttgttgat ctactttgta gttaacctag 120
agaagttaac acagccattg ctacagagct ttctgccact tgagttccag aattccagaa 180
tccagtttcc tagggattgt ggggagtaaa aagaggtata gggtatggtc cctgtatggg 240
agcaatacng nctttattga ntagtgtcta tattgtcttg tgactcaggt 290

<210> 103
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 103
atttttgac aggattttat tttgtgtgca tgcattctgc tccaagtgtc acaattctgg 60
ttacaataat tataatattt ggagttacta ctaagacttt cctgaaagag gtgtattgta 120
ccaaattttg taacatatnn tnntactaan tgatcntana gcttnctana ttntgnatan 180
ggnatgtgnt ancancncnn nncnttnaac nggntttnnn ngtcggntnt gntttctnnt 240
ngntggtgnc cnatnnnnnn tnntttntnn gttcnttttn gnnctnttgt ttc 293

<210> 104
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 104
ggctgcccca gcgttagcag cctgtaccag gtctatgacc cgctctgccc acggctgtgt 60
acgacatcag accaggcact ctcagggccg ctctccagct caccacagtg tctccacgtg 120
ccttacccct tctccttcag gccaagtttc gcggngtgct naattaatac gagcacnagc 180
aanaaattgg acnggcangn aagnntntnn agacacctaa gataaagtcc gganccccaag 240
gctttanctt aaccatgtat ggtaccccat tcattcatcn agaaaaccct caacagctg 299

<210> 105
<211> 300
<212> DNA
<213> Homo sapiens

<400> 105
cccgcctcgg cctccaaaag tgctgggatt acaggcgtga gccactgtgc ccggccttca 60
attttattta ataattatgc atgtgtggga tgcaatgtga tattttgata cgtgtataca 120
atgtgtaatg atcaaattag ggtacttagc atacctgtca cctcaagaat gtttttcata 180
atattttatt tgtaagataa gcattcttcc catgtgcaca acattgctgg gtattgttaa 240
gagatcatga aaacacacaa tccttattga gaaggtggcc aggtgtggtg gctcatgcct 300

<210> 106
<211> 300
<212> DNA
<213> Homo sapiens

<400> 106
gactcttttt tcctttgtat tttctttctc agtctgatct gcttcctgac ttcctggaaa 60
ccctccaaat ttcttgattt ctaatggcac tctttctaga tttctagccc tgtacgataa 120
tattctttca tcatttcagt gggcttttgg agggaggcgg agatccaggt gatctgtcta 180
cactattcag tcagaaagct ggatggtttt tctcactgtt tagctgtgac tcatacttag 240
aaagtggttt aaatgtgaat atcttagttc tggttgtaca attgaggtaa tcctcaattc 300

<210> 107
<211> 289
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 107
tagaggttgg aaaggagtca tgaggggtgg gaaactagca ggggcacatg gaagctaggg 60
aaagaatttt gcttgagatc gtcaaagtga ggggaagagg gtagtaagca aaggagaaat 120
gttatatggg gttcggaggt tttagntcta ntntnncccct nttnatctgt tctttntntn 180
gtnngctctn tnttnctgcg nnagcntnct tctctntnct nnatnnttat ntnngtcctc 240
gtntgtncnt cncnncnttc nctntcttct ttntctnnnc tntccctat 289

<210> 108
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 108
ggtagaagga gcctcctcaa aggcagtgct gggcacccac gggtgtgctg gatactggag 60
tttgagagga gggaggtgct gtggccttgg atactctaaa anagtngtaa ntntcactnn 120
tttgtgncta tannntnntn gtacttctgc tcaacnnnnc ttantttact gagnntattn 180
nnncngnact ttnatnntan tnattntccn tttatncctt tactntnnca cnttntgctn 240
ctttattgat anctggtctn atnactttct nccntcattg ttnttcttac ttttc 295

<210> 109
<211> 300
<212> DNA
<213> Homo sapiens

<400> 109
gtcccaggaa attcctcccc ttattcttcc ttgaagtgcc cgagcatgta gggcaagaag 60
gaaggctgaa gcgctgtccc taggaggaat ttctccttca ggggagcctc agttttgccc 120
atttatctaa ttgaatcagt tttttaccca atccccccgat tttgtaggat aatctccctt 180
atctaaagtc aactgattat ggactttaat cacatctaca aaacacttcc atggcgacag 240
ctagatgagt gtttgaataa ctgggactgt agcccgtcca agttgacaca taaaactgac 300

<210> 110
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 110
tgtttttacc taaatgggcc cacgtggcag catgattttt gtcctttagc gccctgcttt 60
ggggacctct ctgtgctgtg ccgtatagct tcaattcatt cttccaaccc ggtgcctttt 120

ggtctataat ggagatggtg cagntnattn cttngcactt gtcacaacgn nncncctaan 180
ncncnctggg aatnnnancc cnctaatacc tttanacatt taanaaatnc atatttncgc 240
atgncnaaac gancnnnana cncnatgnaa atctcgcaat atcata 286

<210> 111
<211> 269
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(269)
<223> n = A,T,C or G

<400> 111
gggcaaccct ggctctatca ttttcctttt ttgccaaaag gaccagtagc ataggtgagc 60
cctgagcact aaaaggaggg gtccctgaag ctttccccact atagtgtgga gttctgtccc 120
tgaggtgggt acagcagcct tggtncctct gggggttgnn annannaacc atggnnncgt 180
gannactnnn tccagatggn ttnnannnnn ngncntcttc nttccnnatn ctnntnntng 240
nnttnagnct gtangntctt nctnnntcg 269

<210> 112
<211> 300
<212> DNA
<213> Homo sapiens

<400> 112
cccaaactta atgaagaact actcagcaag caaaaacaac ttgagaagat tgaatctgga 60
gagatgggtt tgaacaaagt ctggataaac atcacagaaa tgaataagca gatttctctg 120
ttgacttctg cagtgaacca cctcaaagcc aatgttaagt cagctgcaga cttgattagc 180
ctgcctacca ctgtagaggg acttcagaag agtgtagctt ccattggcaa tactttaaac 240
agcgccatct tgctgtggaa gcactacaga aaactgtgga tgaacacaag aaaacgatgg 300

<210> 113
<211> 300
<212> DNA
<213> Homo sapiens

<400> 113
gaactgtccc ccgttatctc tgtccataca gcaacagccc ccaatggccc tgaccacctc 60
cctcccccagc agaacgcccc ttcgtgggtg tgaaaatact ttctattctg gtcagcacca 120
agaatgcctt tttcccttct gcaggtcctc cagtgattcc ccttaagaat gccccttca 180
aagccacccc cccatcgcag cggcacagct ccctctagag ttccttcaca ctcacatcct 240
ctcccgcctc aggtagaaat atccgcctgc ttagctccag gctcccatga catactcccg 300

<210> 114
<211> 300
<212> DNA
<213> Homo sapiens

<400> 114
cctaggcccc ctggacctgg tctttcagac acatttagcc gtgtttcccc atctgctgcc 60
cgtgatccct atgatcagtc tccaatgact ccaagatctc agtctgactc ttttggaaca 120
agtcaaactg cccatgatgt tgctgatcag ccaaggcctg gatcagaggg gagcttctgt 180
gcatcttcaa actctccaat gcactcccaa ggccagcagt tctctggtgt ctcccaactt 240
cctggacctg tgccaacttc aggagtaact gatacacaga atactgtaaa tatggcccaa 300

<210> 115
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 115
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gctccagaca gctcttctgt catttcacca ggtccaaaca ccagcaccaa ggctcccatg      60
aaatatcccc tttattccat ctcaaatcct tacctatcaa ctccttgccc agagaacctg     120
gaataacata tttacttcta gtccttttca atgcattttc cccttggggg aggtgtggga     180
gggttgtgag tgagtacntg aaagannatc ntacngatng accatntttg anggtnnctc     240
anagggataa atanatatag ntaaccgatg nnnnnncnnc nggagaaacc atgat          295
```

<210> 116
<211> 269
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(269)
<223> n = A,T,C or G

<400> 116
```
ccccccgcgt ctcccgggag cgtcgccgcc acctgcacgc gtctggcaca caaacgtcgg      60
tctcacccct tagtttctgg aagagaaaaa ggaaaagcca ccgagaggcc tgaccctgag     120
gggtcggtng gagatgcggn cncgtattat agggaagcga ttgatgagcg ttgactgttc     180
atcatntnaa ntgtatgntn tnattttntt tttttnttat tatttctttt tttatttttt     240
tntttttttnt ttatatnnnt tttaattta                                      269
```

<210> 117
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

<400> 117
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gtttaccctt ggtttattgt gattatcatg gccattcccg aaagaagaat gtatttatgt      60
atggttgcag catcaaagag acagtgtggc ataccaatga taatgcaact tcatgtgatg     120
ttgtggagga taccggatac aggacattgc ctaagatact gagccatatc gccccaccat     180
tttgcatgag cagctgtagc ttcgtantgn aaaaatcttt gactcnncgn tctgtnttnc     240
tcanntatag gacccacttg aacaaa                                          266
```

<210> 118
<211> 300
<212> DNA
<213> Homo sapiens

<400> 118
accatcttca ctctctggga agaaataagg tgggttacca tttacatccc agtgataagg 60
gccagtttga tcattccaaa gatggttggt taggccccgg ccctatgcca gctgtacaca 120
aagcggcaaa tggacactca agaaccaaga tgatatcaac ctccatcaag acagctcgga 180
aaagtaaaag ggcatcaggg ctgaggataa atgattatga taaccagtgt gatgttgttt 240
atatcagtca accagtatta aaggcctgcc tgatatacaa ccctcgaatg caacacagtg 300

<210> 119
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 119
cctccatgaa ggatattttt ggagtcgtag gagttacatc tgctaacatg cttattttca 60
ttcttccttc atctctttat ttaaaaatca cagaccagga tggagataaa ggaactcaaa 120
gaatttgggc tgccctttc ttgggcctgg gggtgttgtn ntctngtnnn tnantntntt 180
ggggnttnag nnctaannna gntcnnnggn ctnttttnag agatangggn ntctttgctt 240
ctngnngntc ccnttttttn ttgnncncna gnngtgttgt ttt 283

<210> 120
<211> 300
<212> DNA
<213> Homo sapiens

<400> 120
ttcagtacca ggggccggcc gtggctccca tcctccggaa tctgcaaaat ggctacttct 60
tcagaaataa tggggagagg gatggcaaga ggccagagat caaggccctc gagtattaac 120
ttgagcattt gggcacaaaa tagacacttt tggatttcc cgtcttttcc aacaccaagg 180
atgagattat caaaagatgt gttaaattaa tttgtaccgg ccgggcgcgg tggcttacgc 240
ctgtaatccc aacactttgg gaggccgagg cgggccgaat cacaaggtca tgagttcgaa 300

<210> 121
<211> 300
<212> DNA
<213> Homo sapiens

<400> 121
cacattattc cttttccatc ggaagtggcg ctcgtgcatt caactcgttc ccgctcatgg 60
aaccccctctt taaaaagacg cagggcacct gtgagcgcag gagcgagcct aaggcctccc 120
agcggcagcg cccgtgtcct gggcactcag cgtgctgggc agagcaggtg cgatggcccc 180
agtcctagca gccctcgccc atgtcctgtg cccttacatg gctcccggac tgtgcaggga 240
gccgatacgt ttgctgatag caatactgga accaccgggt gcgatggcag tgaggagact 300

<210> 122
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)

<223> n = A,T,C or G

<400> 122
aataaaccca agggcaagcc tttgaatggg tccacagctt ggtacaagtt cccatgctat 60
gtgcagaacg aggtgcccca tgcagaagcc tggattaatg ggaccaacct agctgggcag 120
tcttttgtgg ctgagcagtt gcagattgaa tatagctatc cttttacttt tccacctggg 180
ttgtttgcac gctacagtgt ccagatcaac agccatgtgg tgcacaggtc ggatggaaaa 240
tttcagatnc ttncctatan aggnaaagnn gctgtggtnt ggnagnatan atgacctag 299

<210> 123
<211> 293
<212> DNA
<213> Homo sapiens

<400> 123
ggccagccag ctgctcacac tggacaccac ctctatcccc ctgcgcctct gccctgtcgc 60
ctcctgcccg gacgccegcc tgctggccgg ctgcgagggc ggctgctgct gctgggacgt 120
gcggctggac cagccccaaa agaggagggt gtgtgaagtg gaattcatct tctctgaggg 180
ctccgaggca tctggacgga gagtggatgg gctggcattt gtgaatgagg acatcgtggc 240
ctccaagggg agcggcctgg tcaccatctg cctgtggagc tggaggcaga cgt 293

<210> 124
<211> 208
<212> DNA
<213> Homo sapiens

<400> 124
aggccagtgt gggacagggt tgtgtaggtg tgcatttcaa acacatttat tattcagaag 60
tggtgcagat aacgcttaga ttacaccgaa gaatttaggg agggtggggg atgaaggtct 120
gttagtaacc agaaacacat tagttgggca tcagtaaggg gcaacataaa ggaatggttc 180
ccctcaaaaa cgaacaaacc aaatttta 208

<210> 125
<211> 300
<212> DNA
<213> Homo sapiens

<400> 125
gtgaactctg cacagtcctt gtatattcat tggaaaacag cagtgctctg gaatagttat 60
tttttgaaat gccctgagca gttaggaaag tgatgaaggg tgaagtgcgg agagggaaga 120
ggtggggcct gatgcagttt gctggggttg caaccacaca ctccctgtaa ggcctgaagc 180
agccagttgc atgtttctag ttggaaggca gatagagctg tggaggtggt ggcatgatta 240
ggtctggctg ggaataaggt tgcttggcag tgtattattt attcgctaac tttggtggcc 300

<210> 126
<211> 300
<212> DNA
<213> Homo sapiens

<400> 126
gtttatgggt ttacattgtc atgtctccac aggacaatgc acatggtatg tttgtcagaa 60
cccagttgga gttttgtttc ccagcatcca aaggaaatcc ctaactttca ttttttcttc 120
ccgtaagcag ccccgaacac ttacttataa gccatctcta cctgaattag caatcatgga 180
taagctcaat aactgatcat ttccttatca gtttaaacca tatatatttt aacactgtct 240
ctttttcaca cacactagtt agctaagaat gagctggggg gctgggcgtg gtagttcacg 300

<210> 127
<211> 300
<212> DNA
<213> Homo sapiens

<400> 127
gtaaggtaga aaaattcctc acatgggtta ataaaccaat ggatgaagaa gcatcacagg 60
aatcatcttc tcatgacaat gtgcacgacg cttccacaag tagcgattca gaggaacaag 120
acatgtctgt taaaaaaggt gatgacctac tggagactaa taatccagaa cctgaaaagt 180
gtcagagcgt atcttcagct ggtgaacttg aaacagaaaa ctatgaaaga gacagcttgc 240
tagcaactgt tccagatgag caggattgtg ttactcaaga agtgccagac tcccgccagg 300

<210> 128
<211> 300
<212> DNA
<213> Homo sapiens

<400> 128
gtgtggagtg tcccaagcac agcaggcagt cagggtggcc aatacaaggt gctggcagtg 60
aagtgggggc agactgagcc tgtgtagtga agtgtcttga ggaacgtcag ctgtatcttt 120
taggaaacca aaactgcata gacattgaac ccaggcagaa ggtcatgaag tcagagctaa 180
gaaatgctag tggggatagg gggtgagata gagttgggaa atgtttcaga gctacaggtg 240
acagttgttg gtgtccagtt ggatatgtac catgaaggga agaagcagtc agagtgggca 300

<210> 129
<211> 300
<212> DNA
<213> Homo sapiens

<400> 129
atccctcttt gcagaaaagg ttatagaatg ctgttcttta taaccaaaga acttacataa 60
gacaacattt ttgctgtcca ctcttttgtg tgaacatgta tgtttgactg caagtttggt 120
gccataattc ccttggctac caagccacgt gctgccattc tctgtccttt gtttcataag 180
cacactgaga aatctcacag ctatattctt tggtcttcca cctgcccctc cacctgctga 240
cttgacattg tattataact gttgacaatg actggggtcc tgactccaca gttgcctgga 300

<210> 130
<211> 300
<212> DNA
<213> Homo sapiens

<400> 130
ttcgtcacgg gtaattatgt gctggatcga gatgacctgg tggaggccca aacacctgag 60
tatgatgtgg tgctctgccc caacccctggt cgtcgtatgg caagagaaag actcttacag 120
aaacgatcta caagaactac taccgaatcc aattgaagcc agagcagttc agttcctacc 180
tgacatcccc agacgtgggc ttctccagct atgagcttgt ggccacaccc cacaacacct 240
ctaaaggctt ccagcgtcct gtgtacctgt tccacaaggc ccgatccccc agccactaag 300

<210> 131
<211> 300
<212> DNA
<213> Homo sapiens

<400> 131
ggtggaggga ggcagccggc atggcatggt gaggaagggc catggaagag gacagaacct 60
gtccacggag tcaatgctga ggaaggaaga cggaggatga ggccagtcag gtttttcgtg 120

gtggcagtgc cttatgtttt tatcgaagtg tatattcaca cagaaaagca catctcccag 180
gatcctgaga gagcttgaac cagaccactg tggacacggt ggccacccgt caccactacc 240
cttcccaagg ggagacgagg agcaagtagg cttgagggaa aagctgcaca ggactcgtgt 300

<210> 132
<211> 300
<212> DNA
<213> Homo sapiens

<400> 132
atttgaggat ctcgaccttg tccttccagc aggtgctccc aagccacctc tgggcctgag 60
aataggcatc acatgactct gtttaatcct ccgacacagc aaggatgccg ggaagcaggg 120
caaagtggtt caagttatcc ggcagcgaaa ctgggtggtc gtgggagggc tgaacacaca 180
ttaccgctac attggcaaga ccatggatta ccggggaacc atgatcccta gtgaagcccc 240
cttgctccac cgccaggtca aacttgtgga tcctatggac aggaaaccca ctgagatcga 300

<210> 133
<211> 300
<212> DNA
<213> Homo sapiens

<400> 133
cccgctgagt ggcagtggca ggaagtcggt ggaagcagat ccctgtgcag aagttgaatt 60
accagggcgg ccacacacgg gctgcacaac ctttgcagtc gtgcacggca agtgggatgt 120
ggcctccgcc catgattggg cacctggtca ggctgggaga tccaaatagc acccagtggg 180
cagctgtccg acccctggag gggcaagcca ggaaagaaac ttagggcccg ctgtgaccag 240
atgtcccttc cagttgggaa gactaaactg gtttggccaa tatctcccag gattcccctg 300

<210> 134
<211> 300
<212> DNA
<213> Homo sapiens

<400> 134
ggtacctggt gcctctgact gcgcctctgc ctttgccgcc tggctcctgg tggttcaagt 60
tccagaaagg tccgagggct gtaaggtcct tagagaacct agaggctcct cctaggaacc 120
tttaaaaatg ataccctgcc ctgcgttgga gcctgtgaat ttctttgcat gtgaggggcc 180
agctgtcagg tggtcggctg agccagggca gacccaggag cccagcacgc catcgcggag 240
gcctttctga tggcacagtg ctagccgttc ctcctgcttc tccgcccact tggccatgtc 300

<210> 135
<211> 282
<212> DNA
<213> Homo sapiens

<400> 135
aaaaagcctg ccttctgctc cccagggttg cttttcccag gaggtgtgag cctacctgga 60
ggaggcttag gcacagggat acctgctgga ggtctgagcg ttggttgagc acctcctgtt 120
tgtaggatcc tgtgccagag cctgtgggga ggtggagaga ggctaggaga catagccccc 180
acccctgagg gatgagacag ctccctgcag gcaggctgtg cccagtcatc tcaagcctac 240
agctgggctg ctggctgcat ggtctggagg gcggtgggga gg 282

<210> 136
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

<400> 136
agatacattg aactcttcag gagcacagca gctgaagttc agcaggtgct gaatcgattc 60
tcctcggccc ctctcattcc acttccaacc cctcccatta ttccaggtac tacctcagca 120
atttggtggc ccctacaaat ggttaaaact ggattacgcc cttcaaggct ttccttatgn 180
agccccantt gaggacatcc tggatttcct gggggagtnn ncncagatat tcgnctcatg 240
gggnnccctg nnnnnnnntc 260

<210> 137
<211> 300
<212> DNA
<213> Homo sapiens

<400> 137
ctggtgtcca tcagcacctc cgtgatcctc atgcagcacc tgctgcctgc cagctactgt 60
gacctgctgc acaaggccgc cgcccatctg ggctgttggc agaaggtgga cccagcgctg 120
tgctccaacg tgctgcagca cccgtggact gaagaatgca tgtggccgca gggcgtgctg 180
gtgaagcaca gcaagaacgt ctacaaagcc gtaggccact acaacgtggc tatcccctct 240
gacgtctccc acttccgctt ccatttcttt ttcagcaaac ccctgcggat cctcaacatc 300

<210> 138
<211> 300
<212> DNA
<213> Homo sapiens

<400> 138
gacggcagtg gggaagttgg cacaacctta caaggccaca ctcgtgtcat cagcgacttg 60
gactgggcgg tgtttgagcc tgacctcctg gttaccagct ctgtggacac ctacatctac 120
attctgtgaa gttctgggat taccgccagc ctcggaaata cctcaatatt cttccttgcc 180
aggtgcctgt ctggaaggcc agatacacac ctttcagcaa tggattggtg actgtgatgg 240
ttccccagct gcggagggaa aacagccttc tcctgtggaa tgtctttgac ttgaacaccc 300

<210> 139
<211> 300
<212> DNA
<213> Homo sapiens

<400> 139
gatgcacggg cactttggag gaccgagcgg ccactctgag taagatcatc caggtggcgg 60
tggaactgaa ggattccatg gggacctct attccttctc agctctcatg aaagccctgg 120
aaatgccaca gatcacaagg ttagaaaaga cgtggactgc tctgcggcac cagtacaccc 180
aaactgccat tctctatgag aaacagctga agcccttcag caaactcctg catgaaggca 240
gagagtccac atgtgttccc ccaaacaatg tatcagtccc actgctgatg ccgcttgtga 300

<210> 140
<211> 300
<212> DNA
<213> Homo sapiens

<400> 140
tgtaggcaca agattttctt gctagcggaa tgtgaaccaa aaagtgtaga ggccaatcag 60
taaaaatatt caaagccagt tttgttgttt tcagcagtta gtaactatca gtagatgaat 120

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atttactagg aaacattggt cttttaacca ctttgggcat gcttcttatt tagtatgttc      180
atcatgattt agtatcatga cattcagcga acatttattg agtgcctact gtgcactagg      240
gactagtaag catgttaagt ttgtaagctt tgttgatttc caccacaaac ccataggacc      300

      <210> 141
      <211> 234
      <212> DNA
      <213> Homo sapiens

      <400> 141
ccagatccta aagctgtgtc cttaatgaca gcaaagttaa gcacttcctt tgtcctagag       60
acatttattc attctaaaga aaagcccacg atgcttcagt ggattgaact gttgacgaaa      120
cagtttaata atagtcaggc agcttgtgag tggtttttag atcgtatggc tgatgacgac      180
tggtggccaa tgcagatact aattaagtgc cctaatcaaa ttgtgagaca gatg            234

      <210> 142
      <211> 300
      <212> DNA
      <213> Homo sapiens

      <400> 142
ggaatatcta agcagacata aatagtaaca tcagggcact tcagaatctt catccgattt       60
atatcttcat aggtccatgt ttctattttc aaatgtcctt tatttcaaag cagcatgtca      120
ctaaaaaaaa gaaatgggca atcatcattc ctcaaaagat acgtgcattt ggttgggcaa      180
aatcatccag gctaccagtt ggataataaa agtcgaaatg tactatttga ttttttccta      240
tgtttccaag caagtatttc tcaccagaca ctgcccccat catatcccct ttcctcttct      300

      <210> 143
      <211> 300
      <212> DNA
      <213> Homo sapiens

      <400> 143
aataccttta aatccctggg cagcaccgca gggacagata ttaccgtcaa cagtgtgatt       60
ctacttccta aaaaccctga gcactttgtg gtgtgcaaca gatcaaacac ggtggtcatc      120
atgaacatgc aggggcagat tgtcagaagc ttcagttctg gtaaaagaga aggtggggac      180
tttgtttgct gtgccctctc tccccgtggt gaatggatct actgtgtagg ggaggacttt      240
gtgctctact gtttcagtac agtcactggc aaactggaga gaactttgac agtgcacgag      300

      <210> 144
      <211> 300
      <212> DNA
      <213> Homo sapiens

      <400> 144
ccaaaaggca taaagataag tgagggatgg agttctggaa gttgtgtatt cacgtaagat       60
ttactttcag gtattggcaa aaatcacagc tggagtgcag attaagcatg gtaggagggt      120
ggtgattgga gaaggaatgg aggggaaaaa ggaaaaacta caaatcatgt taaaactgtc      180
ctcattgagt tttacaagta atatactggt cttatatacc ctttcctcct accgtgggaa      240
aatatcacta acttgtaata ggattaaatg aggcaatacg taagcttttt agacattttc      300

      <210> 145
      <211> 300
      <212> DNA
      <213> Homo sapiens
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<400> 145
gagaaaactg aaatcagatc atacagatgt tctgtactat aatataaaaa gaagacaagg 60
actgaaaaga ttgagtgtag aaattgacac tctcagaagg agaccaaaaa tcggttcttc 120
atcccaaaga cctattaaac tcaaagaagc atcatattca aatgataatc aaattatttt 180
gcagagtcct tcttcaaatg gaactaaaaa agacatacat aaatgtgtag actttaaacc 240
taaagatatc aaattgacaa atgctgggag caagcttgac catggaatta aaagccttag 300

<210> 146
<211> 299
<212> DNA
<213> Homo sapiens

<400> 146
gcacgccccc ttttctccgc cacttcacca gtttctgaaa tccaacctcc cagacttcac 60
aggaagatag atattcttga gataatgaaa agtgatatct tcgcatacca taggagaaaa 120
ggctgaggta tatatgattt ttaactgtat taggggtgta tgaaccagtt taaaaacgag 180
gttttattta ctgtagagat gaatgcaaat cagaaccaat gatcccttgg cctacttagt 240
taaaaccagt tcatacatcc cttagggttt ttattattat tattattatt attacagtt 299

<210> 147
<211> 300
<212> DNA
<213> Homo sapiens

<400> 147
gcacccagcc ggcttcatct cttcttgaaa tcacttttat accattctat gtggttctca 60
ccatgagctt gagtggtggg ctaaagtgcc tctccctgct ttcagcttcc tgctgggaac 120
tcactctctc aagttccttc cagcaccacc ccatagagtt cccatcactc cacactgtcc 180
agtgacaact cccaacatgg aagatctgct agttctacag ggtgctctct ggctgcccca 240
gtaacatgtg tttttaaatt tttcacatgc atgtttgacc ccgactcccc gaagtcaggt 300

<210> 148
<211> 300
<212> DNA
<213> Homo sapiens

<400> 148
ccggctaatt ttttgtattt ttagtagaga tggggtttca ccatgttacc caggatggtc 60
tcaatatcct gagttcatga tccacccacc ttggcctccc aaagtgctgg gattacaggc 120
gtgagccacc acacccagcc agttttccta ttttctgaat tcagaattga cttctctggg 180
aaaactggag atgagaatct gcccagtgct ctgctgtcca gtcaccgcct tttgaatttt 240
agttttggca ccaggagtac cgttagcttt cccсttcttc tggcccattt gcgtcatttc 300

<210> 149
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 149
ctcgcagctg tcagagttgg tcctggctgt ggcgtccaaa cagcttgagg gaaaaagatt 60
ctggctaacc acctcatcta ctactcaagt tctttctgaa ggagggattt cttcagttaa 120

ccatggacag tgaggtttct caccacagta acttgagtcc aggttgaggg ggagacagat 180
ctgtggtaaa tctntgantn gnncatcnta ntgantgnng aaccnctcag gactcnttat 240
gnaanganct tgtgtgtnaa agaaccnntg gagcngatct ggagacctat atgtgt 296

<210> 150
<211> 141
<212> DNA
<213> Homo sapiens

<400> 150
ggaaggacta cggatccgca ggaagaggca gttgggggcc aggggcccag tagaggaggc 60
tgagctcctt ccaactcctc agaacctcca ctctatggat ctggacctct ggattcggct 120
ttctccctgg gcactgcctt c 141

<210> 151
<211> 300
<212> DNA
<213> Homo sapiens

<400> 151
ccgagatggt gacactgcac tccagcctgg ctgatagagc gagactccat ctataaaaag 60
taaaaaagaa agtcttcagt gaaaggagat tcgccctatc agctatgaaa gcacagaggg 120
gaggaacatg gagtaggggc tgcctgcagt cagatcctgc cctcacaacc ttgccaggga 180
aacaggctcg tgggtacaaa ggttgtgtgc ctcaacttcc tcatggaagc acgtgagatt 240
attttataac catagagtgg agacagtcag tatgaccacc aaacccagga gccatatatt 300

<210> 152
<211> 300
<212> DNA
<213> Homo sapiens

<400> 152
gtggttgtgc cttttcccag ctcgaacccc tcaggcttct gcctggtgtg aagttcagat 60
tcctcaggct gagctgctct tgcctcagtt tcccagcctg accaaaggaa gcaggtgggg 120
cctctgggat aaagagcgtg tgctggccct tccctgtgtg ccccgcagac acacactcca 180
ccccactccc catgccccag ggcccaccag gctgacttct ccgctgcttc tgacgggctc 240
ccttgccctc tgggttccag tcagccagca ggaggcacca gcaggaatcg gagggtgaga 300

<210> 153
<211> 257
<212> DNA
<213> Homo sapiens

<400> 153
cccctgttta cagcaataag cacgtcctcc tcccccactc ccacttccag gattgtggtt 60
tggattgaaa ccaagtttac aagtagacac ccctgggggg gcgggcagtg gacaaggatg 120
gcaaggggtg ggcattgggg tgccaggcag gcatgtacag actctatatc tctatatata 180
atgtacagac agacagagtc ccttccctct ttaaccccct gacctttctt gacttcccct 240
ttagctttag acccctt 257

<210> 154
<211> 300
<212> DNA
<213> Homo sapiens

<400> 154

gttatcccgg aagtctcaat tcttcctgaa gacctagagg agctctacga cttattcaag 60
agagaacata tgatgagctg ttactgggag cagcccaggc ccatggcctc acgccacgac 120
cccagccggc cctatgctga gcagtaccgc atagacgccc ggcagtttgc acacctgttt 180
cagctagtct cgccctggac ctgcggggcc cacacggaga tcctcgccga aaggacgttc 240
aggctcttgg atgacaacat ggaccagctc atcgagttca aagcgtttgt gagctgcctc 300

<210> 155
<211> 300
<212> DNA
<213> Homo sapiens

<400> 155
aaagaaagca gcagagaaaa aagggagtgg tctcgtagcc caagaagacg caaatccaga 60
tctccttccc ctagaagacg atcttcccct gtcaggagag agagaaagcg cagtcattct 120
cgatctcccc gtcacagaac caagagccgg agtccttccc ctgctccaga aaagaaggaa 180
aaaaactcca gagctcccag aaccttcagt gaaagtaaaa gaaccttcag tacaagaggc 240
tacttctact agtgacattc tgaaagttcc caaacctgaa cctataccag agcctaaaga 300

<210> 156
<211> 274
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(274)
<223> n = A,T,C or G

<400> 156
catcacggtt ttacccagtg gtgaaagaag gacggacact ggatgccaag atgcctcgaa 60
aaagaaagac aagacacagt tcaaacccac ccttggagag ccatgtgggc tgggtgatgg 120
attcccgtga gcacaggccc agtactgctt ccatnatctc nannctntta tatggnatgc 180
ttactttnnn aannattnnn tngttntntt tngnatagct cttnggcttn nttntggnat 240
tgctntnntt tnntnggttt tgttntgttt tttt 274

<210> 157
<211> 300
<212> DNA
<213> Homo sapiens

<400> 157
gcagatttgg ttccatacct cttaaaatta ctcgaaggca ttggccttga aaacctggac 60
agcccagcag ccactaaggc tcagattgtt aaagctctca aggcaatgac tcgaagtttg 120
cagtatggag aacaggtgaa tgaaatcctg tgccgttctt cagtctggag tgccttcaaa 180
gatcagaaac atgatttgtt catttctgag tcacaaacag caggataccт cacaggacct 240
ggagttgctg gctaccttac cgcaggtaca tctacatcag tcatgtctaa cctgccacct 300

<210> 158
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 158
cctacccatg tgttcccgaa ggctgggcac tgagctccca cacccagcat acagctcatt 60
actcacacac cctctgccgt ctacagagta attagtagag gaacacgccc ttttctctgg 120
agatttccgc cccagtcgta ccaactcttt aacaaggaac aaaagtcaac aacttcaagt 180
ttcctgtgag gatgaaatcc agagtttcta atgactaatc tccatcgtca aaagaaaagg 240
caaacctcag ccccttcaga cagctaatgc caggagaagt tcatgantat tnnaagaaag 300

<210> 159
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 159
ccgactagta acatatatca tagcttccaa agtatttgtt tacagaatac cacagtgact 60
aattaccaga acttttctta ttctctctga gcaaaggaac ctcatgggag aaaaaaaata 120
taggtcattt ttaatgtaag ggagttgcta ggattggagg ttaagacagc tatttacact 180
tcatgnangg antnnctgan gacctcacaa ngngttntct aggnatagag aaaggtgcaa 240
atcttcttat cagaaacgca ttataaatag aaaagaaact cttaaaagag attcttcaaa 300

<210> 160
<211> 300
<212> DNA
<213> Homo sapiens

<400> 160
ggcacagtcc tctctgttca tagaaacacc tgccagtgtc aaggattcca gtcaggtgtc 60
tatcccaact ggtcagggag agaagggcag acccattctc aaagaccacc atgtccaagg 120
tctgacagct ccccactggc tgccccccaca ggggctttag gctggtctgg gtcatgggga 180
agcgtccctc ttatcgctgg tctgtgttct cctgggattt ggtatctatg ttggtacgac 240
tcctggcctt ttatctaaag gactttggct tttgtaaatc acaagccaat aatagacttt 300

<210> 161
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A,T,C or G

<400> 161
gctggaggca ttcgaaaggg actcccgatg tggtgggcgg ggctgaaccc tgtggcttct 60
gaggtccctg ccagccagag acttgtgtga gtctttgaat ggcttcacat gaacaaaaga 120
gcatttctgt cacctttcct ctagtttttt ncatcncacc natctnngag ctgaggcnnn 180
gttntttctc nnattntatt tctntnntnt ttttnctctt tttttnctna tatttttntn 240
tgttacannt tnnnnaattt cnttnttttt tttnnntctt ctatcttt 288

<210> 162
<211> 293
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 162
ctcaaaagtc agcacaacaa gtggaaactg gccaaccagt atgagaaatt ccacagtcca 60
agggaaagag aagagtatag tgactgaggt gggtctctct gtccaacatg caggcagcac 120
tccctcatcc tgctcagtga gagaattcag ggggaataga aaagctgctg agagttggta 180
aagaggatgg tcgagtgaga tggtgttgac ctccctggat cttatgttac tacatcctgg 240
acctcnagag gntcatccaa nctttttgaa agctnatctt cttgnctggt taa 293

<210> 163
<211> 300
<212> DNA
<213> Homo sapiens

<400> 163
gtggcgcagt ctgagttcac tacagcctcc acctcccagg ttcaagagat tctcctgcct 60
caacctcccg agtagctggg actacagttg aaaaagatca tctagcaaag ccttttttccc 120
agctacatat aaggaatttg aaagtcacat aaaatggtta agaaaatgtg ccaagattac 180
ctcagtaatt ctggtctgtg ttctcaggag accctggaaa taaacaatgt gtcttctgtg 240
gcttcagcgt cacctagtgc aggctgccat tcaacaaacg cattgtcaac agtcaaccaa 300

<210> 164
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

<400> 164
gccagattga ccaagcgcca gagacaaaat gtggcacaac gagaacccca gccctgtcca 60
ggtggctccg cgcccagggc ccaggcttag cagtgctccc tgccctatct tttggaaatt 120
cttgctttta tggtnttnan ctctttangc cctnaatanc nangtncttg ntgngtgttn 180
cttntcnttg ctgctnttnt tttannntcn nnatntnnnt ttnngctaga gctntngcta 240
ntnatatnnt tnnnttntnt gtttt 265

<210> 165
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

<400> 165
atcaggactg tgtatgtctg agcacatgtg gctctgtttg ggattacgtg tttgtctgtg 60
aatgtgtgtg tgtgttggag ggttgtctat tgtgtgtggc tgtatagggt gtctgtagat 120

caagatgtgt atacagctgc ttctgctatt gctggtttgg gggaggtgnc tganaanctg 180
nnactgnnta tcntgannna agangggngn anggcncacc cctgntnctg ntcatnntta 240
accntgntcn nnatntngnn ctctg 265

<210> 166
<211> 300
<212> DNA
<213> Homo sapiens

<400> 166
gggttgagaa ccaagggagt cagatcaacc agtcagatca accatgtggc tgcaagacag 60
ggcagagagg ggacgtcagc cccaggcccc tccacacctc atgtgcagtt ctacagcacg 120
ggcacaggca ctgcctacac agagccaacc tctgagccca gacccctcca ctgtaaaatg 180
agaataagca ctcaggatgg ttgtgaggat tcactaacag actgagaaga aatggtgacc 240
taggctggca catgggacac tccccaagat gctccttttt catttccctc aagcccagag 300

<210> 167
<211> 300
<212> DNA
<213> Homo sapiens

<400> 167
accaactgat gacccaccag cctaatctgg cccacaacca tgttctgttc ggtccatgtt 60
ctatttaaaa gtatcttgaa ttggttgcca tcatttaaac tcaatcagac tttgaaggca 120
tggtccagcc acacagggcc tacattccca catggcaact atgaaagggc tccagcccag 180
caggggctgt cccggtccct gccacccccca cttcctgtgc ctcagatctg gcccctgcta 240
cgtaagataa ggacagctac aggtccctct gagcctaaac ccacctaacc ggactaacat 300

<210> 168
<211> 246
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(246)
<223> n = A,T,C or G

<400> 168
cctgatcctg ccaacagcag ttcaggccag ccccacatgg agcaagtacc tgaggcccag 60
ccccttgggg acttgcccat cctggaagtg gaggagatgg agcccccgcc ggttatggag 120
tccttccagc ccgcccaggc taccgccccg cttgactctg ggtgnganan gnanttttg 180
tttttatctt angaattggg ncnttttgtg nnnnaattgn nttnannttt ttntntnnnn 240
nnttnt 246

<210> 169
<211> 300
<212> DNA
<213> Homo sapiens

<400> 169
gcgaagcagg cttttgctca tgtatccaag ttgctgtcac agtgtaaatt tgatctgttg 60
gaagaacttg tggccaaaga ggtgctacat gcattgaaag aaaaggttac ttcactacct 120
gacaaccata aaaatgccct tgctgctaac atagatgaaa ttgtatttac atcaacagga 180
gacatctcca tttactatga tgagaaagga aggaagtttg ttaacatcct gatgtgcttt 240
tggtatctaa ccagtgccaa catccccagt gaaactttaa gaggagccag tgtattccag 300

<210> 170
<211> 274
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(274)
<223> n = A,T,C or G

<400> 170
aagagacgag cggcccagac aggcctggga aggcccctct gccccgtcag gggtgaaaag 60
caaagctgga aggattcgga gagggttggg gccgtcttcc tcatccttcc ttttctcggg 120
gctcccgtgg gtaggtgcac ttggagcaac cgggcctgcg gggtgtgcgg gggtggaggt 180
tgnggaggnn atcgnncnng gcncncccng gtacnctcnc nncnnncncc ntnncnncnc 240
ttctcnntnt cnccncnnnt ccnncnnctc cctc 274

<210> 171
<211> 300
<212> DNA
<213> Homo sapiens

<400> 171
agaagactct tcccctgcca agaaaactcg tagatgccag agacaggagt cgaaaaagat 60
gcctgtggct ggaggaaaag ctaataagga caggacagaa gacaagcaag atgaatctgt 120
gaaggccttg ctgttaaagg gcaaagctcc tgtggaccca gagtgtacag ccaaggtggg 180
gaaggctcat gtgtattgtg aaggaaatga tgtctatgat gtcatgctaa atcagaccaa 240
tctccagttc aacaacaaca agtactatct gattcagcta ttagaagatg atgcccagag 300

<210> 172
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 172
gatggccaaa aatatagaaa aggatacctt gcatgtcctg tgaaatgcaa aggaattcta 60
aagtgtcatt atgagttacc tcatggaaga aagcaaaagg tgaatctatc tagagtttgt 120
ggttctgact cacaagagac tgatgttcat gctgaaggac gagtgtgaca ggtggaagga 180
tagagcaccg agaccacact ctaaagggta ggaatctatg ggaactattc agggagatga 240
aagcatggaa tgaactgaag cttgcagact cgttgagtan naagcgcgtt tta 293

<210> 173
<211> 271
<212> DNA
<213> Homo sapiens

<400> 173
aataccctct tcccttgcaa tggcataggg acatctagaa tatagagaag acagagacaa 60
tggaggaaga gtaaagaaac tgactatatg ccttcttcat ttcactgcaa ggaaggccaa 120
gcagattttt gaatgaggtg tgagattgct gttaaattgg actggcctgg acattttaat 180
cccttaaata gaggtgcaat gattaaagtg agatttgtca ctaaaattta tggtatctgc 240

ccaagattca ggagtgatgt tgggaggaga t 271

<210> 174
<211> 300
<212> DNA
<213> Homo sapiens

<400> 174
cctaagcagg catctgcagc atcctatttc cagaaaagaa attctcaaac taataaaact 60
gaggaagtga aagaagaaaa tcttaaaaat gtattatctg aaaccccagc tatatgtcct 120
cctcaaaaca ctgaaaacca aaggccaaag accgggttcc agatgtggtt agaagaaaat 180
agaagtaata ttttgtctga caatcctgac ttttcagatg aagcagacat aataaaagaa 240
ggaatgattc gatttagagt attgtcaact gaagaaagaa aggtgtgggc taacaaagcc 300

<210> 175
<211> 300
<212> DNA
<213> Homo sapiens

<400> 175
aagagacagc ctctctcttc tgtctcagaa gctctgtgtt tgggaaactt tgagcccagt 60
gagtagcagg gtctgcagtg tgagtaccag gtttccctgg caatccaggt ctcctctgag 120
gaagcattct gacttcccac tgaccacgga aggcatgtca gcttcatgcc tcgggctaga 180
gttctgataa tcggggctga ggggtgaaaa agaaaatcca gtcaggacag acagtgggga 240
gacaggtccc tgccctttat ttgcgggatc aatcagggac tcccagaaag gaaggagaat 300

<210> 176
<211> 300
<212> DNA
<213> Homo sapiens

<400> 176
atctgttcag ttctggcttg aaaatgtgtg tgccatactg tgacccacgg gcagcccctc 60
ctcctctact gtgtcaggtg gaccagggtc acctctgttc tgcgcagctt tgagattcta 120
ggattctacg gccggcacga atggcatggg agggttctct gcacgggacg gcataacggc 180
atgccatcct tcaggctggc aggagcctgc gcaggtgtgg caaaatcttg aaacagcctg 240
tgtcctgcct ggcttttcac tttcctattt aatataagaa agcacttttt tttctgcttt 300

<210> 177
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 177
caaagtgtga ctttgctagc agtttactca acaatgggca tgtcatctag agttcccaag 60
atttttacca tcctgcaaca gcagtcatag gagaatatgc ctcaatcaaa atcaggctaa 120
aaatttgttt caattctgcg tgtgagctgg gaccttangn ctttctgntc tctatttntn 180
ttttcttntn nnntctnttn cattncgtna ntnncnnnnn nnnantnntc nnnccnntnt 240
tctnnaatnt ttctnntnat nttaatta 268

<210> 178

<211> 300
<212> DNA
<213> Homo sapiens

<400> 178
agcaaatggt gctggagtgc ggtggctctt aagagtctcc acagtttgct agtttgaatc 60
agggactgga tttgttgtaa tatttttgag tatttatggt tgtgactcaa tatatccttc 120
cttattggat acattgaagt ctaactgaga atcgatattt gttccttgga cttgagtgtg 180
aaggaaagag aagctttaat tactactaca acatgacctc aaagtttttc aagtactcaa 240
tgttgtgttt tctttttaat ggggctgttt gtgaagatga ggcattagga tgttgtgatt 300

<210> 179
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 179
caacaaaagt cgtgagtgat cagtgaaagc tctgctgtga aggtgacatt tgataactgg 60
ggaagactgt tcaggtaatg ggggcacatg tgtgtgcaga ggcctgaaga aggtgctggt 120
gtggcaagaa tagccaagag actcatcact ggacccgatg gggagaggag taaaagaaaa 180
ggtccaagaa ttggaagaga tggcgggcag gtcatgtagg gccttacaaa naatttgact 240
ttggctgaga gggnagccgt taaaagggtg 270

<210> 180
<211> 300
<212> DNA
<213> Homo sapiens

<400> 180
atcagatggg gttgttttta ttggtatcca gttatgtttg cttgtctttc cagatgggcc 60
cagttattag ccatacatag tacattgata cacctccacc agcgggtgag gaaatgatgg 120
aaaaaggagt aagaagtggc cattcgtttt aatcattcct cctggatttg tcctcagtcc 180
ccaactgcca agtaggatgt gtccatgtat aaatgtgtgg ggcatgacta aagtaccacg 240
tagctgttct ttatatttat ttacctagaa agatctggca aagaactcaa agaaaattgt 300

<210> 181
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

<400> 181
gttggcttcc ccgggagagg agtatgagga ttaaaaatat tcagaaacaa acaaaagaac 60
acaaaaatgc aaacacatgg tagggaatta ctactgctta ttctcaacag taccacagaa 120
ccagtgtttg agtgctggca ccatatgcaa catggggcat ccgggctgga gtgatccagc 180
tttttagatt cattgtatga ntcatgntaa ggnnnaggag tcttnnnnta nncnannang 240
nnnncnnttn ttnnnttacc 260

<210> 182
<211> 300
<212> DNA
<213> Homo sapiens

<400> 182
ccttggtgca tgggcctgga gccctggggg gaactgtggg aactctgagc cgtctggccc 60
tgagggctca gcctcagcct ccacatctgc ctgttgcggt cctggctgtg gggtctcagg 120
ataaggacat agccccctgg aagctgggaa ggccccacat caggccttgc agtttctaac 180
ccaggaggtg gccgacagca gtgcgttggg gctgcctgtc cctgcacacg aggccctggg 240
gggtgaatgg aggctctccc tgtttttgtt agcattggag gcctgagcag ggctaacgcc 300

<210> 183
<211> 300
<212> DNA
<213> Homo sapiens

<400> 183
agaaggactt cctaatccat gaaaaccatg taaagtttga tcatatcatt agctattggt 60
cagacctatt ttgttgtttg agaaaaacag acacatgggg aaaatggtga ggtgaggtag 120
tgtgttgagg agctggaagt gagcagctct taattttttc ctcctgagac tgagttcgga 180
agaagagtag accatggcat ggaggtggga gagacaagga cagagttggg gaggtcactg 240
cctcacactt ctgctcacac cgctgggtct ggtggaaact caaagtttgt atctaaaaat 300

<210> 184
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

<400> 184
gtcctccctc gtgggcctcc caaagtgctg ggattacagg cgtgggctcc cgtgaccagc 60
ctggaacgtg ctgatgagcc tctttttctc ctgaaacccc ggtgggaaca gatggtggat 120
gctttcaaaa cgcattgaan ntgnacttna agacntgcgg antgntntnn gangantttt 180
tgagattttt tttaanatan ntntttttan ntttnannnn ccnttggaan cagatngngt 240
ttntntnaaa ntnnattnaa tctgt 265

<210> 185
<211> 300
<212> DNA
<213> Homo sapiens

<400> 185
aaagaatgaa atgtccaaac ccttactgac aaattatacc tgacagcaga atacacccac 60
atctactaag aggcttccat ggtttttact gctatcactt tgattactcc aataatgaaa 120
ctattgaatc tgtttcttag aagccaaggt aagaaagcag agaatagtct gccattgaac 180
tgatagcatc tgttttataa ttatctggtg acttttctag agaagatgta taaaggctgt 240
gttgtttcat gtacaccaca cttgaatgat tgcttcttga gttggattgt actccagtta 300

<210> 186
<211> 300
<212> DNA

<213> Homo sapiens

<400> 186
cttttgtaag attttgttcc ctcagcttga ggaacaactt catcttcaac tttttatttc 60
tccctgatgt tacagtttgg tagatttcaa actggaatag ctagcatgtg cttgctaaat 120
aattttatgc cagccttatc ctgtatccta gctgttctta acagcaggta caaaaatgcc 180
tgtttttcag caaggttgaa attgggaatg tccttttgaa tcagaagaag ataggccata 240
gactcatctc ccagcacaaa ggggcattct atgaaatggt actggcccta ggaggatttc 300

<210> 187
<211> 300
<212> DNA
<213> Homo sapiens

<400> 187
gcagactcca ggttaaaagc gcttaatgca acattcagag tgaaaaaccc agacaagaga 60
tttactgacc ttaagcacta tagtgatgaa ctgcagtctg tcatctcaca tcttcttcga 120
gtcagagcta gagtagcaga tcgactctat ggtgtatata aagtacatgg gaattatggt 180
cgagttttca gtgaatggag tgccatagaa aaagaaatgg gtgatggact gcagagtgct 240
ggtcatcata tggatgtgta tgcatcttct attgatgata ttttggaaga tgaagaacat 300

<210> 188
<211> 300
<212> DNA
<213> Homo sapiens

<400> 188
gtcctccaag acctgattca gcctttcaca cggtggtgcc actggtccca gggtgcgccg 60
gccccatctc ctcagggcag tgggtgggga agactcacca ctacccctaa aatgggaaga 120
gaccagggtt ccaaagtgac ccccagtggg ggcttcacac gccagggagt acatgagatg 180
atttctgtgg tccctgatac acagctttca ttttgagaga cacaattatt tgagtatcta 240
gtaattcaag cctgggattc aaagatatca tttaagatga aactgaatat ttctcttctg 300

<210> 189
<211> 300
<212> DNA
<213> Homo sapiens

<400> 189
cctgaactca ttaccttcaa gtatggaaat agcagtgctt caggaataga aatcttggca 60
atcgaaaggt atttgattcc aaatgcaggg gatgcaacta aagccataaa acagcagatc 120
atgaaagttt tggatgcttt ggaaagttaa tataaaagaa aattatataa aaagaaatta 180
agacaaccaa gagaaacatg gacatatacc tcctgactga atactaactg gagacctttc 240
atttgctcat ggggctgctt aaatagcagg tctaagaaag tgtaaattat tataatcaat 300

<210> 190
<211> 300
<212> DNA
<213> Homo sapiens

<400> 190
gtggagatga cccctgagaa gttcagtgtc ttaatggaga agctctgtaa aaaggggctg 60
gcagccacca cctccatggc ctatgccaag ctcatgctga cagtgatgac caagtatcag 120
gctaacatca ctgagaccca gaggctgggc ctggctatgg ccctagaacc taacaccacc 180
ttcctgagga agtccctgaa ggccgccttg aaacatttgg gcccctgacc atccaccaag 240
ggaccaccct cttggtgctc catcaccagc ttcctgaagg gcatttcttt cttcaccacc 300

<210> 191
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

<400> 191
gacaagcgct ggagccgcag ccctcagact ggcacgggaa cgccagcgtt gggtgttcag 60
attccacgcg tatgtctggg ctcactcaca gcatggccga gtgtctgcag tgctggtcct 120
gacccttcca gagcagcagt ggacagatga gataagactg tttcagaaac naanatggnc 180
acagccttcc taacangcag gtcatctggc catgtctgta tngtnacttg ttaaaangct 240
tcngtnatat tgattgatna natatt 266

<210> 192
<211> 300
<212> DNA
<213> Homo sapiens

<400> 192
tcctggatca gtttctttgt catgtagcca agactggaga aacaatgatt cagtggtccc 60
aatttaaagg ctattttatt ttcaaactgg agaaagtgat ggatgatttc agaacttcag 120
ctcctgagcc aagaggtcct cccaacccta atgtcgaata tattcccttt gatgaaatga 180
aggaaagaat actgaaaatt gtcactggat ttaatggtat cccttttact attcagcgac 240
tatgtgaatt gttaacagat ccaaggagaa actatacagg aacagacaaa tttctcagag 300

<210> 193
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

<400> 193
cacactataa atggaagaaa aaaattaata gcttctgttt aatctgatga atgtggcttc 60
ttttgccttc actatattgc cctgtgaagc tgctctttgg tggnntattt atngnactgn 120
ctgntnttat tttgcttatt gcctttnttn nnnttgnctt tatcncattt tntngttntt 180
ttnttcnntt gnttacnntt tnnnannntt cntnngtttn atttnnnngn ntcttntntt 240
aanncngngg antnnttttt tctnnngnng annntttctt t 281

<210> 194
<211> 300
<212> DNA
<213> Homo sapiens

<400> 194
tgattgatga gggctgtcgg ccaggaactg atcgaggctt gttaattgca tttgtcaaat 60
gcagggaaat tgggaattag tgaaatcgga gaagggggtt tggaaaacaa atgactcgtg 120
cctaaggaaa ttttttgcag gaaagtatct caggagcccc tgcagtcagg gagctgctgg 180
tgtggactca gactacatgg ttgaaatagg caggagctgg gcggggcaca gtggctcagg 240

cttgtaatcc cagcaccagc actttgggag acggaggcag gcagatcact tgatgccagg 300

<210> 195
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 195
gttaacagtg atgatgacag cgtgctgctg gtacactgta tctcaggctg ggatcggacc 60
cccctcttca tctccctcct gcgcctttcc ttgtgggctg atgggctcat tcncacgtnc 120
ctgannccca ntgagatcct ntacctcnct gtggnctatg acgggttcct cttctgcacn 180
tgnnggttnt tctnatcntt attttnntnn ttagtnnttt nctantttnt gnntattnnt 240
nntatntnnt ataatcnntn nntnnnttcc tattattt 278

<210> 196
<211> 300
<212> DNA
<213> Homo sapiens

<400> 196
agagccctct gtttgcagct catggaggaa gcagcaggga aaacctggcg ctgcaaaatg 60
tgcaggctcg aatacggatg gtcctcgcct atctgtttgc tcagttgagc ctctggtctc 120
ggggtgtcca cggtgggctc ctcgtgctgg gatccgccaa cgtggatgag agtctcctgg 180
gctacctgac caagtacgac tgctccagtg cggacatcaa ccccataggc gggatcagca 240
agacggacct cagggccttc gtccagttct gcatccagcg cttccagctt cctgccctgc 300

<210> 197
<211> 300
<212> DNA
<213> Homo sapiens

<400> 197
cttgggcaag ctctttatcc taagattcct cagtgagcct tatagagttg ctgcgagaat 60
tacatttgtt catgatgtca agtgtctggt atgtagctaa tgcttattga acacatagta 120
atttattgaa taattgtcat gatcactgga tgagatatag ccactgtgga ggtaggcaca 180
ccagggtttt agaggcttgg gatcttgcaa caggattttc ctcttgcctc tccaaactgc 240
cctttgccca gatggcttca gcatcttttt gcatccctgt ttccttgttt ggtgaacacc 300

<210> 198
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 198
ccactaacag aactgaagaa aattctaaac gaaatggcaa aaagaaaatt catttttgg 60
ctctctgctc tgaagaaccc ttgttataac gtgtttatag catctttggt agatggagag 120

agatctttta tgacaaagag tgtgatacaa ttttttaat gcatataggg cattgttctt 180
cctagagcat atttacataa attatctcat ttggaaaaca caacaacctt atacttgtgt 240
ctgcattcgc ttgggcattt taaaggtcgg aagaanttga ancttttcaa gagt 294

<210> 199
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

<400> 199
agttccctca cttctctgca cacctattcc cagattccat ccagagcaaa gctgatgttt 60
atcgtctcat tgtacttagg ctttcgtact ttaaaaaatt atgacttttt aaaaataagc 120
cttcagcaga cagaagtgaa gaaatttagc ctgggttgcc tcagcaacaa agtctgcggt 180
tcctaagagc cacatgttgg ggaagcgggg tgnntnnnan ntgttgnnga nggngnnnnn 240
nnnnngnnnn nggnnnnnng nnt 263

<210> 200
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(276)
<223> n = A,T,C or G

<400> 200
cctctccttc catgtcacaa actaacccac atcaccattt tgcaaacatg catccttggt 60
ctcaagttgg cctaacaagg aaattgaaca gatccattga aaagataatt gaaagcacat 120
atcctcttgg atcagaagga catttagcat ggtacctctg catcattcat gtgttcattc 180
attcatttca cagatccttc aagaatacct tctatggcct agacactgtt gcatgtgaag 240
nccacngana accactattn caancgggac cccttt 276

<210> 201
<211> 300
<212> DNA
<213> Homo sapiens

<400> 201
ggggagtaac agaagcctgg atacaattac tctatcagga gatgaaaggg actttgggag 60
actgaatgtg aaattgtttt ataattcttc agtagaacag atctggatca cagttttaca 120
gtgcagagat ttaagttggc cctctagtta tggagacact cctactgttt ctataaaagg 180
aatacttaca ttgcccaaac cagtgcattt caaatcttca gccaaggaag gttccaacgc 240
tattgaattt atggaaacgt ttgtatttgc tattaaactt caaaatctac aaactgtaag 300

<210> 202
<211> 300
<212> DNA
<213> Homo sapiens

<400> 202

atgtgcctgt aatcccagct actcgggagg ctgaggcagg agaatcgctt gaacctggga 60
ggcagaggtt gcagtgagct gagaccatgc cactgtactc cagcctgggc aatagagcga 120
gattctgtct cccaaaaaaa caaaaaacaa caacaaaact tgctaccacc cagggatttt 180
ctgctattta aaaggtgaat ttcttttctg gtactaaact gtagctgctt aacttagtaa 240
aggctgtgtt tggccaggcc tgtgccagag gctcacctgg agtgctccac ccactggcag 300

<210> 203
<211> 300
<212> DNA
<213> Homo sapiens

<400> 203
aagaactcca tgttccactt agaggcttca gagtgcagtg ccaggggtgc cttcccaaaa 60
gtcctccctg cctgggtgga gcgtagacag ctcagcaccc cacgggggc gttggagcca 120
gccttggttt tgttgggtaa ggatgttaga agaggggcga agacccatag ccactggtgt 180
gaagggtctg ctcttgaccg aaggctgcct ccctctgggt gcagaccagg caggtggtcc 240
cagtcacggt gccctggggc cactgggtct gtctgccctc aggctccact agacacacct 300

<210> 204
<211> 300
<212> DNA
<213> Homo sapiens

<400> 204
ttttgcacaa gacaggttgc tgaggggtcg gcaagcatct gacttgccca atcccctgga 60
tatggtgagc cccgccatgc ttttattctg tatcgctttt gtctttattg ctgctttcaa 120
catttacgtt tggttacagt taactatttt cggagtgtgg tgattgaaga caatttcatc 180
atcccactgt actttttttt tgagagggag tttcactctt gttgcccagg ctggagtgca 240
atggcacgat cttggctcac tgcaacctct gcctcctggg ttcaagcaat tctcctgcct 300

<210> 205
<211> 300
<212> DNA
<213> Homo sapiens

<400> 205
gccatttctt ctggccttta caaaaaggca ttttgttata ctacagtgta aacctcattt 60
ttttcactcc aaaaggtagc agcccctctt cttcccaccc tggacctgcc tttcactccc 120
tgggcacaga gcgcatggta ccattgatgt ttggtttatt ccaggatcca aggagctggt 180
tctgctggtt ggaccaaacc tcgtgagcca gccacccctg acccaaatga ggagagctct 240
gattctccca tccgggagca gtgatgtcaa acttctgctg ctggggaaat ctcatcagca 300

<210> 206
<211> 300
<212> DNA
<213> Homo sapiens

<400> 206
ctgacttcaa ctgcaatggt cctgtcaaca cacagggatt ctacaggggc tcccctgggt 60
gcgtcatgga tgctgttctg cgccacggct gtgaggcagc cttcgtgagc ctgctggtag 120
aatttggagc caacctgaat ctagtgaagt gggaatcgct gggcccagag tcgagaggaa 180
gaagaaaagt ggaccctgag gccttgcagg tctttaaaga ggccagaagt gttcccagaa 240
ccttgctgtg tctgtgccgt gtggctgtga gaagagctct tggcaaacac cggcttcatc 300

<210> 207
<211> 300

<212> DNA
<213> Homo sapiens

<400> 207
ctcaaagaaa tccaagacag acaactcttc tcttagttca ccactaaatc ctaagttatg 60
gtgtcacgta cacttgaaga agtcattgag tggctcgcca ctcaaagtga agaactcaaa 120
gaattccaaa tctcctgaag aacatctaga agaaatgatg aagatgatgt cgcccaataa 180
gctgcacact aactttcaca ttcctaaaaa aggcccacct gccaagaaac cagggaagca 240
cagtgacaag cctttgaagg caaagggcag aagcaaaggc atcctgaatg gacagaaatc 300

<210> 208
<211> 300
<212> DNA
<213> Homo sapiens

<400> 208
gtaaggcctg ccttttacac accagttgtg tgtttgttag tggctgctgg atgccagtcc 60
acaccctcaa acacctcaca gtcccaaacg gggtgctcct acaggtccca gggtcctgtt 120
agtggaagaa aggcagttcc aggaagtctt cctctagcct tcatgacagg aagtagttaa 180
tcctctggga aatagacttg cagccctggg aagaaaagag ttgttcctcc ttggggacat 240
acaccatcat ctgggctatt tcatccagtg tctcttcttt atacaggagc tcctggctca 300

<210> 209
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

<400> 209
agtggctgag tggaggcgcc cagacctggg caggcagcag gctcaggccc acaccttgtg 60
atttttgaaa ccaaagccca gaagatgatg tttacttctc tctccctggc tctgcccttc 120
ttactgcaaa ccatgctgtg ccttagggcc cttctcatag ctgttcctca tggccatgac 180
tggaacaggg atgcaacctc tttctacaca agcacagtta gttgggtgaa gtcttttttt 240
tgnttgnntt anacggagtn anact 265

<210> 210
<211> 300
<212> DNA
<213> Homo sapiens

<400> 210
ccgggactga caccactggc caggaagtgg ctgaagctca gctggatgag gatggggatt 60
tggacgtggt gagaagacca cgagccgcct ctgattccaa cccagcaggg cctctgagag 120
acaaggtaca tcccatgatt ctagcacagg aagaagacga cgtcctggga gaggaagcac 180
aaggcagccc gcacgatatc atcagaatag agcacaccat ggccacgccc ctggaggatg 240
ttggcaagca ggtgtggcgg ggcgccctgc tcctggcaga ctacatcctg ttccgacagg 300

<210> 211
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 211
ccaggatgga ggtccgggcc tgccccaagg gtcccaccac agccagcggg ctggcctccc 60
accccagcat ccatacacgt aggcctgttg ctgagggaag gccctctagg gtcatctggt 120
ccaggggttc tttgcttcag ctgcacatcg gctgcctctc caggaagcgt gttcaacaca 180
tggaatcagg gctccaccca gacctgccga ggccacactc ctggagtatc tgcatccaaa 240
gatctgcacg tttgtaaagc taaggggtgn tnnttggant aagcttnagg tttg 294

<210> 212
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 212
gcaagaccag catctggaca gtgggggctc ttgagagtcc ccggcgcccc ccacaccagg 60
ttgtcctata accctctccc ctctgtggag acgttaatgc caaggggtgt gtgnnnaggn 120
aagtcctnnt ntgcanccaa gattgacaga tanttctagt nacttccngg gnntccattc 180
ttattttatt ccaatatnaa nanaatncag gttntgtcan attattaagg tgtgcttatc 240
tatattttaa anaatctntt acanngtttt cttgcatctn gtnccattca tgtcttaca 299

<210> 213
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(255)
<223> n = A,T,C or G

<400> 213
aatatcccca aataacatgt cttacatgtt tggtaagact tactgtaccc tgtcctagaa 60
gatagaagat gccctgccct tagaagacaa agagactgta gagctatgcc ttctaaatct 120
taagccactc ttcagataat ggatcccttc atggtcagcc caaacatctc aagaactttt 180
aatttgtacc gtttgtcttt ttttccatct atttaatacc ncantnttna ctttattatt 240
atgaanccna tatct 255

<210> 214
<211> 138
<212> DNA
<213> Homo sapiens

<400> 214
tgcctgcgag ggctgccctc tgcagagcgc tctctgtgtg ccagagagcc agagacccaa 60
gacagggccc gggctctgga cctgggtgcc cccctgccag gcgaggctga ctccgcgtga 120
gatggttggt taaggcgg 138

<210> 215
<211> 300
<212> DNA
<213> Homo sapiens

<400> 215
agccgagctg ggccgtcctg gggatcggta cagctccctg gggtggtgac aggccctttg 60
tgaaagttgt gtgcttggtc ttccacccca gccccagaca ctgcttcaaa tagcaccaac 120
cagatgggag tccacatctg tggtggcaaa atgctgacat tttcccaaga ggtacacaag 180
gtgggagagg cctgctgtag cagaggtgtg tgttagagaa agcaggggcc tgatttagta 240
gcagagaact gggtgagaaa aatggccaga gaaagtgacc tgccagctac cagtgtttcc 300

<210> 216
<211> 300
<212> DNA
<213> Homo sapiens

<400> 216
agctcattaa cttaccagag gttttaaaat ctgagaagca ctcattcaaa tgctttggtt 60
ttttgccatt tgtatttcag gagatgcaag cagcattgta tctgcaattt gctacacagt 120
ccctaagtca gctatgggaa gtagcctcta tgctctagaa tcaggctctg attttaaatc 180
tagagggatg tctgccgcga gtcgtgtgat attcgggcct ggtgtgacca tgtccacctg 240
tgatgtcatg cttattgatg acagcgagta tgaagaggaa gaagagtttg agattgcctt 300

<210> 217
<211> 300
<212> DNA
<213> Homo sapiens

<400> 217
agtagaatag tcttttatga aataatatac ttatggaaaa tatatgactg gtatatgatt 60
cctttagagg aagaaaattt caattttcag attcaaagga agcacccttc ctagtctata 120
tatatagtaa gcggagaact agtttacag tgctcatttc aggtcttcag taagtgtgta 180
tgatgatgtc agaagtattc attggctcac tttcaaatca ctgaaaattc agccatgcta 240
aggttggcta ttacgtgtat tagcgtttcc aagcgagtgg tcttggctgg ggtgagattg 300

<210> 218
<211> 300
<212> DNA
<213> Homo sapiens

<400> 218
ggtagacagc ttcaagtggt actcggtggg atacatgaaa catttggacc gtgacccgga 60
aaagttgacg caccatatgc ctttgtttta ctgtctctat gagaatcggg aagaagaatt 120
tgtgaagacg attgtggatg ctctcatgga ggttacagtt taccttcaat cagacaagga 180
tatgatggtc tcattatact gtctggatta ctgctgtcac ctgaggacac ttaagttgag 240
tgttcagcgc atctttcaaa acaaagagcc acttataagg ccaactgcta ggttgtccta 300

<210> 219
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)

<223> n = A,T,C or G

<400> 219
ctgcaaagaa aggaagattt ttctttttac aactagatat tagttttaga ggaaggaaat 60
agctgaaaaa ctaaatttgc tttggtgaaa tgtcctgtnc ngancagtnc cttggcatac 120
nacanctnca atnggggagn tnttatacat nctctgacgc tntantnnta nggngactct 180
nnatttnctg nncntnttan ggttnnccnn tngtctgttn tcttnagtan aattangcnt 240
ccttnnanng ttggtgtctn ntnntgcata tcnntttang cttttnttna tattta 296

<210> 220
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 220
atttcccttt gccctgccac tttcaccata gggccttctt acctggcaga ggagtgcctt 60
agataccaga agattggcag ggaagaaggg cagccacttc ctggttacca tggagaagct 120
tgtcatgctc caagcctgtg cttacttgtc cagtagcaac aatgggaaac tgtattattt 180
ggggtagggg tagaaccctg agggcataaa gctcagaatt ccangctgca tctggtanaa 240
tcggcttggc nggggttcan ctgctccctg ggaggccttg gcatactnag gctgctccag 300

<210> 221
<211> 300
<212> DNA
<213> Homo sapiens

<400> 221
gtacattgtc ctgacactgg aaaagacatt tggaatttac tttttgacct ggtctgccat 60
gaattctgcc agtctgatga tccacccatc attcttcaag aacagaaaac agtgctagcc 120
tctgtttttt cagtgttgtc tgccatctat gcctcacaga ctgagcaaga gtatctaaag 180
atagaaaaag tagatcttcc tctaattgac agcctcattc gggtcttaca aaatatggaa 240
cagtgtcaga aaaaaccaga gaactcggca gagtctaaca cagaggaaac taaaaggact 300

<210> 222
<211> 300
<212> DNA
<213> Homo sapiens

<400> 222
ggagaagcaa ctgacgacag atgctgcccg cattgtgcag atgcagccca gaagcagatc 60
cagagcttga ataaaatgtg ttcaaacctt ctggagaaaa tcagcaaaga ggagcgagaa 120
tcagagagtg gaggtctccg gccgaacaag cagaccttta accctacaga cactaatgcc 180
ttggtggcag ctgttgcctt tgggaaagga ctatctaatt ggagaccttc aggcagcagt 240
ggtcctggcc aggcaggcca gccaggagct gggacgatcc ttgcaggaac ctcaggatta 300

<210> 223
<211> 300
<212> DNA
<213> Homo sapiens

<400> 223

ctcaatctct tgacctcatg atccacccgc cttggcctcc caaagtgctg ggattacagg 60
catgagccac tgtgcccagc ccctcccttc cttgtttttg taaaataaag tcagagaaac 120
ttttccagct atagtcaact aatacacatt gatttgaagg agtagaaact gaggagttta 180
cataaaataa cttctctgtg aagtattagt gagatgatca ggcctggggt gggagcttga 240
agagaggagt ggataaagca gtcaaggtca aacaggagtg agacagtgag caggactgaa 300

<210> 224
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 224
accacgtcat atacagccta caaagagctc ttgactgtga gctcgcagag gcccagttgc 60
ataccactgc cattgacaaa gagggtcgtc gggctgttaa agcgggagct tatgctgctt 120
gccaggaagc aaaggaagat ataaagagtc attcagaaaa tgtctctcaa catccacttc 180
atgtagaagt attacactca gagattatgg ctcattanaa atntgctttg ngccttnntt 240
nctgnatnaa tnnntttatt ttnt 264

<210> 225
<211> 300
<212> DNA
<213> Homo sapiens

<400> 225
gaaacatggg gaaaagttcg taaactcctg gttgatgcaa ttcataatca actaactgac 60
atggaaaaat gtattttgaa atatatgaaa ggaacatcta ttgtggtccc tgaaccactg 120
cactttttat taccagggaa aaaaaatctt gtaacaattt catatccttc aggaatacca 180
gatggccagc tgcaggccta taggaaggag ttacatgatc ttttcaatct gcctcacgac 240
agaccctatt tcaaaaggtc taatgcttat cactttccag atgagccata caaagatggt 300

<210> 226
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 226
cagcatcttt caggtcatcc ggagctgcaa tcgaagtctg gagacagacg aggaggacag 60
ccccagtgaa ggaaacagct ccaggaaaag ctccttgaag gataaaagcc gatggcagtt 120
tataattgga gatttgttgg attcagacaa tgacatcttt gagcaatcca aagaatacga 180
ctctcatggt tcagaggact cacagaaggc cttcgaccat ggnacggagc tcatcccttg 240
gtcgtgctgt ncatccaanc cgatgtgccc anttcntgct tta 283

<210> 227
<211> 300
<212> DNA
<213> Homo sapiens

<400> 227
gggaatatcc tcaaccttaa atccttatct gccgttactc agggatatac taggattatg 60
tcatcaatta tcttcaataa tagcattttt ggtcaaatta aatgagtggt aagcttcttc 120
acaatgtgac cattgaaatt gaatggtttg ttctgtacct tttgcttca gcaatcaatt 180
ttctccatta agatgggact tgtactttaa ttcagatatg gtacctcccg aatagaaaat 240
aaattatgtt aatatagttg taataataag tgtgtgttaa gatttggtta ctataaacta 300

<210> 228
<211> 300
<212> DNA
<213> Homo sapiens

<400> 228
gctgggtgca tgtgctacca cacccaatta tgaatttcat cattagtttc ttagtagagt 60
ccacatgtcc tcagtagtaa gttcatcagt gctaaatatt tgaaggtatt tctactgttt 120
tgtaaaagta acttaagcct acctggtctg ctatcttttg agtatttata ctttctacgg 180
gcttgtaggt aaacataaaa agagaaaaaa tatcccaata atacagtttt taacctttta 240
tgataaagac atgcttagaa tgctgttaag ccttctgaga tttaaccact gaaactaagt 300

<210> 229
<211> 300
<212> DNA
<213> Homo sapiens

<400> 229
tgagctggga gaaggggaga aagtttgtga agaggagatc ggtgacctgg gctccttatg 60
tgcctgaaag agtttgagtt tcctgttaac tccaaatcaa cagtattttc aacaagaaat 120
gtgcaattga aatcaagtgc tgtttaagtg cagctaggat ttccacagga agacacttgc 180
agtgaacaga gttatggagc agcaaaaaca cagatctatt tggaaaaaga gaaaacatat 240
gcgttgtatt ttgcttcaat tataaaatac catcctctca aaggtggttc taaattacaa 300

<210> 230
<211> 300
<212> DNA
<213> Homo sapiens

<400> 230
tccttttagg taacacaaag ttccaagtat gttacctagt ttacagagtg gtactcaaga 60
agagaattaa cattcttact gtaaaacttc attgataaca atagtctact tctagaaaca 120
gaaataagaa ttaaaaacag tgctatctat ttgtactggt gagtgaattt taacttttaa 180
gaaaatttta atgtttaaga agaacttcag tgtatggagt tacaagctat cctgaatatt 240
tttataatag aaagtattag ttttcccagt gtggcagctt cttaataaaa gaaattattc 300

<210> 231
<211> 300
<212> DNA
<213> Homo sapiens

<400> 231
gaactaatga aaagtggttg tctctaacct tggtatgctt tcagagcatc agggttaaat 60
tacctcaact tttggcaggt atactctaaa gctattaagt atataatatg ggctcggcat 120
ggtggctcac acctgtgagc cacctagcac tttggcagtc caaggcggac agatcacttc 180
aggtcaggag tttgagacca gcctgtccga cgtggtgaaa ccccatctct actaaaaata 240
caaaaaccga gcgtggtggg tggcatgcac ctgtggtccc agctacttgg gaggctgagg 300

<210> 232

<211> 300
<212> DNA
<213> Homo sapiens

<400> 232
gagacctgca gcccctgttt cgtggcagac agcaggtgcc tggcggtgac ccacggggct 60
cctggcttgc agctggtgat ggtcaagaac tgactacaaa acaggaatgg atagactcta 120
tttccttcca tatctgttcc tctgttcctt ttcccacttt ctgggtggct ttttgggtcc 180
acccagccag gatgctgcag gccaagctgg gtgtggtatt tagggcagct taacaggggg 240
aacttgtccc catggtcaga ggagacccag ctgtcctgca ccccttgca gatgagtatc 300

<210> 233
<211> 300
<212> DNA
<213> Homo sapiens

<400> 233
agaaggctct taagacactc aataaatata cttattgaat tagtagaact tttcccatgt 60
atctcctatt actacattag gatctttgtt cccttagtgt gtctttagcc tgtgctctca 120
caagctttgt ggtgtcgtgt ggatcacagg atcgtttaag ataaagatac ttttagctct 180
ttaattctgg tattctatta ttggtacagg gaacccatac attatcttaa tttcagagta 240
acacacgtct cggcatggga cagggggtgt cctaatgaaa agagggctaa caggtggaat 300

<210> 234
<211> 300
<212> DNA
<213> Homo sapiens

<400> 234
ggaagggtta atattctcat ttttccctcc tattctatct ggagagatca taaaatacat 60
tacagttaga gtcaacaatc accacttgaa gaaatctctt caacacaaag cctgataaaa 120
tttacatctg gtaaatgtct atttaagcta ctgcgaaaca catatactta aaaaaaaaag 180
gccttttcat tgtctcaatg tcttgaaggc tggagattgt aaagcacttc cctaaagttc 240
ctatgagcag gatgaggcta tttgccttta tagagctata gaactaataa gcaatcaaag 300

<210> 235
<211> 300
<212> DNA
<213> Homo sapiens

<400> 235
ggacattata tgtctgaatt ttcacagtac ctttaattaa agagatatct ttaattaaag 60
tagctctgtg aacagcaagg aagtggatga ggaaacagaa attggcagag tccatgattt 120
gtccagatta aactgccatg agtgactgta acaaaaattc agaacttatg taactcaaat 180
aggtatattt gagaaatagg tcggcacagg tcaagatgtg aaagcccaat aaagctaggc 240
agagacttgg taagataaaa aaaaagtgcc tcaaaatgtt cagtgacagt agtgccctga 300

<210> 236
<211> 300
<212> DNA
<213> Homo sapiens

<400> 236
ggtatcagaa gccaagccag agctcaggtg ttttgattca cagcccttta taaccattat 60
cattttgaat gaaaagtaaa tcactgtttc ttagtgattt gggcatgttt cctgagttaa 120
gggatctgtc tgacatccgt ggtaagcctt gtcttaagtg aattgtgggt aaagacttgt 180

cccagatgga gtgggaggac atgaaggatg aggaactacc ttcaggacct tccagtccat 240
aggcagaggt gggggaaatt cacagaaaaa caaatgagtt aaagggatac tgcagtagtg 300

<210> 237
<211> 287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(287)
<223> n = A,T,C or G

<400> 237
gtacagcagg ccttgatttc aacaataaaa tcccgacctc ccttgctgcg ctgcactgcc 60
cccgggagct gatgggttgg agactggaaa tcagaaaaca cacaatccag aaacatggtt 120
tatctggaac ctaggtatat aagatgccaa gataagtcaa attcacagag acacattgta 180
gaatggtgat tgccaggggc cacagaggag ggcagaaata agttattctt gaatgagtac 240
agagtttcag ggtttttgt ttttgttttt tttttttnt ttaaaca 287

<210> 238
<211> 300
<212> DNA
<213> Homo sapiens

<400> 238
cctcggccct tgcccagggt ggggcctggc cctcatcttg accaaagctg ctgtgtggca 60
gctcggcctc tctacgaccc catcttggtg gctgcacact tttcctggcc cgcacccccca 120
tccccagtcc ctgttcccca agaggataca gagcacggtg ctggctgact caactgtgcg 180
tcccaggttc agggtcttac agagctccac cccctggggt cttacctcac tgggaatgtg 240
ttttgaaaat gaatttggag acaagccaac aaaccctgca ctccaaaaaa gcaaaacaga 300

<210> 239
<211> 300
<212> DNA
<213> Homo sapiens

<400> 239
gggcatgtac accctgctgg cgcgctgcga ggagctggag cgggctctgc agccggttca 60
ggggctggcg cgccaagtcc gggatatccg acgtactctg gaggtgttgg aggccctgtg 120
caagtgacca ggaggacagg agaggccggt cctggccagg gcagggccca gcaggacccct 180
aaggactctt cagggagtcc tggtgggaag tgcccactga ggggaggcct gtgtgttgga 240
ggctcttcca gatgcgttca gctggcccgt gcccactcgc tgggccttag gctggtgtat 300

<210> 240
<211> 300
<212> DNA
<213> Homo sapiens

<400> 240
gggaagtttg tcaatgacaa gagcaggaag agcgagaagg tgaaggtgat tgacgtgact 60
gtgcccctgc agtgcctggt gaaggactcg aagctcatcc tcacggaggc ctccaaggct 120
gggctgcctg gcttttatga cccgtgtgtg ggggaagaga agaacctgaa agtgctctat 180
cagttccggg gcgtcctgca tcaggtgatg gtgctggaca gtgaggccct ccggatacca 240
aagcagtccc acaggatcga tacagatgga taaactgcca agaaccagat ttttaaaagg 300

<210> 241
<211> 300
<212> DNA
<213> Homo sapiens

<400> 241
caggagcatg ttgcgtcgtc actagctgaa tgagaacctt cgggtccaag tttcagcttg 60
tgggtgttaa cacctacagg cacatcgatc cgattagaaa aagcagtggt tgcaaacctt 120
ttcctggacg gcttcctttc cttgcctata ttgatacctt ttcttctcgg agatgtcgct 180
ccagtaaacc tgcttctgac tagctgcttc tgaaatgttc tggggcctcg aaccggccgg 240
tctggccacc tcaatccaga ctggctgcac ccgctgctcc cgcgaggcct ggattcatgc 300

<210> 242
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 242
ggcagatgtc acaacagaat aaccacttgt ttggagcctg gcacagtcct ccagcctgat 60
caaaaattat tctgcatagt tttcagtgtg ctttctggga gctatgtact tcttcaattt 120
ggaaactttt ctctctcatt tatagtgaaa atacttggaa gttactttaa gaaaaccagt 180
gaggcctttt tccctctagc tttaaaaggg ccgnttttgc tggnntgctc aagggtacna 240
atnggncntt aatngnatat taccgnanan tgcctta 277

<210> 243
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 243
atgaagtcag ggcaggccgg tgcccttttt gggaggcacc aggcggggag gagttggcgg 60
agcaggtctg gctgtgagcc agcaccaggc aacccggccc ttgtccaggg acctctgctg 120
ccttctctct ggggtcagga acctcagagg aggtggctct ggctactgca taggacgcan 180
tnactngnan ntgccgtnnt ncctgtctna ttttctgtan ntnnntncnn ccctttntttt 240
ntnctttnct ttnttnngan ttnntnttcn nnnttntnnt antttattc t 291

<210> 244
<211> 300
<212> DNA
<213> Homo sapiens

<400> 244
ctcagctctc accagctgtc agatgctgcc acagggcgag aacctccaag atgtgctccc 60
cagggacatc tactgccgcc tcaagcgcca cctggagtat gtcaagctca tgatgccctt 120
gtggatgacc ccagaccagc gcggcaaggg gctctacgca gactacctct tcaatgctat 180
tgccggaaac tgggagcgca agaggcctgt ctgggtgatg ctcatggtca actccctgac 240

tgaagtggac attaagtccc gtggagtgcc tgtcttagac ctgttccttg cccaggaggc 300

<210> 245
<211> 300
<212> DNA
<213> Homo sapiens

<400> 245
gttgatgaga agtctaaagc agtaatagta gaattacatt tcttctggtt ttaatagtaa 60
ttgttgtctg ctgccttctt gcagtttacc ctacccatag tgtgtaatgc cattaaaacg 120
aagtatagaa agatccattg gcctggagaa aggttagagg tgtaggagtg tatgacattt 180
agttcattgt tcttactggg ttcagcacat tgcaccctgc gtgttatttg caacttaaaa 240
gggtatagat taaaacttgt gctcagtgta acaactcagt accacaaaaa tggtagaatg 300

<210> 246
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)
<223> n = A,T,C or G

<400> 246
gttacatcaa gagataaata gagtgaagca gaactagtgg tgcggaccag ctcgccagca 60
acagaagggt ttgtagtcgg cctggcagtg gacagggagg ttggctagaa ctattacctt 120
aggtccgtga taatatccct gaatccaact tttcagaaag aaataggtaa catatttttc 180
accaggaagc tttacccaga cactgaacag aatggtctca gtgcactaat ggaggctcag 240
ttaaagggtt gtggatcnca tggaanagan nttctgantt ggatatttgg 290

<210> 247
<211> 300
<212> DNA
<213> Homo sapiens

<400> 247
tggagaggcc ttggcaaaat ggctcatcac gttcaggccc tccgggctga gttgtcagca 60
gtatcaaggg aggggcctgc tctatcccca gaaggatcag gatcatatcc aggatgcccc 120
acatacacca agccaggcag agggcagctc agctcctgtc ccatctgctt tggatatctt 180
tacccaaagg caggtaaccc gaagagccag cctccactgc ccacagagcc aggcccagtt 240
gtgttggagt ataggtcagg agctgtggaa ggaggcagtc tgtgagggac tcatgcttta 300

<210> 248
<211> 300
<212> DNA
<213> Homo sapiens

<400> 248
tctgggagct gattggagaa gcggccaaga gtgtgaagct ggagaggcct gtccgggggc 60
actgagaact ccctctggaa ttcttggggg gtgttgggga gagactgtgg gcctggagat 120
aaaacttgtc tcctctacca ccaccctgta ccctagcctg cacctgtcct catctctgca 180
aagttcagct tccttcccca ggtctctgtg cactctgtct tggatgctct ggggagctca 240
tgggtggagg agtctccacc agagggaggc tcaggggact ggttgggcca gggatgaata 300

<210> 249

<211> 287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(287)
<223> n = A,T,C or G

<400> 249
cttcagcgta gctctccacc tctacccgga acacaccctc tcacagacgt accaatgtta 60
tttttagaat ttcatggatt tagttataca taccttaata gttttataaa attgttgaca 120
tttnaggcan attnggtcaa tattatcatt gaatantttg agacgnnnng gtgttntttt 180
tatnnttnna nggnttnnng ttatnnnann atttnnggtn ttannnaatn gggggggngt 240
nnannggnat attggngtga nnantaatta gggnnttttt tgtgtag 287

<210> 250
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

<400> 250
agtcagcatt atttaacact ccccttaact gtctttgaac tttctctttt aacaaaaatg 60
tcaagtcttt acagttgtaa tatcaccatg tttcccattt ctgttaatac ttctatgaac 120
ccctaaagta ttgaagggaa ctagntgnng ncnagaggat cacanncnnn tgtntnntan 180
ngncaanatn tgcnanaaca gttactngnn ctnnnggnat gngnnncctn nagtntnnga 240
gccnntgcnn tncatgttc 259

<210> 251
<211> 257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

<400> 251
agtgctcggc tgctgccagc tgctcccaat gtgccgatgt ccgtgggcag aatgactttt 60
attgagctct tgttccgtgc caggcattca atcctcaggt ctccaccaag gaggcaggat 120
tcttcccatg gataggggag ggggcctgtn acgngctgca gngacaaacn tangccgntg 180
gganttangn ntntttcant cattntangn tgnnataann nccataannn ctngnatnng 240
tatnnnntna ctnncnt 257

<210> 252
<211> 300
<212> DNA
<213> Homo sapiens

<400> 252

caagtgccga gacccgaccc tgggcgtggt gcatcgaggt agatgcaaag atgctggcca 60
gagcaagtgt cgcctggagc gggctcaagc cctggagcaa gccaagaagc ctcaggaagc 120
tgtgtttgtc ccagagtgtg gcgaggatgg ctcctttacc caggtgcagt gccatactta 180
cactgggtac tgctggtgtg tcaccccgga tgggaagccc atcagtggct cttctgtgca 240
gaataaaact cctgtatgtt caggttcagt caccgacaag cccttgagcc agggtaactc 300

<210> 253
<211> 300
<212> DNA
<213> Homo sapiens

<400> 253
gctgcagcaa ctgctgctgc cattgcaacc gcagctccgt tgataaaggt gcagagtgat 60
ttggaagcaa aagtcaattc tgttacagaa ttacttagta aattacagga gactgataaa 120
cacctgcaac gtgttacaga gcagcaaaca agcattcaga ggaaacaaga gaaattacat 180
tgtcatgatc acgaaaagca aatgaatgtg tttatggagc agcacataag gcatcttgaa 240
aagttacaac aacaacaaat agatattcag actcatttta ttagtgctgc actcaagact 300

<210> 254
<211> 300
<212> DNA
<213> Homo sapiens

<400> 254
gggaaaacaa aaggtaatag gaggggtgct gggagaacaa ataggaagaa aagggaaaac 60
ccagaaatag taattgttag tacccctgct acttgactgt tgaaaatgct ttaaaagttt 120
gttctgaatt aggagaaaag gcgctccctc aaccaggctg aaactaccac cagtgttgtt 180
gccagaaacc tggagcagga aggagctgct tctcccctcc gccttccagt cacccaccat 240
taatacctgc tattggcaag gcccatctgg atggcagatg gcaaagcagc ctggaaagtg 300

<210> 255
<211> 300
<212> DNA
<213> Homo sapiens

<400> 255
gtttgagctc ttgagccagt gacttccctg cacgttcagc tttctccttt gtgaaatggt 60
aatagaagca cgctgcactt gggattcttg tggattacat gtgagggtct tagaaacact 120
tgatgtgtaa gccaactatt atgtattact gtatatggaa cacaagggat gtagccaaaa 180
ctaaatgcaa gtttgtgcct cagatgtctt cctatcagaa cagagtcaaa tccagatttt 240
gatgcttaaa tgtgacagct tattcagatt tagaaaaact tttggtatgg gccaaagaaa 300

<210> 256
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 256
agcactgtga gtgaaaataa aaccaggagc agggttagca tatctggatt ttagtctgag 60
ctctttgtca aaaaagtcct gggcctcagt ttctttatta ctgaaggaga gaatcaactc 120
tgtgattcta agttataaac caccgttatt aaagttctac tggagccaaa actccaaatt 180

gttctgtata ttaaaacttt tcggcagggc atngtngctt acacctgtaa tcccaatact 240
ttgnnaggct gnggnnnncn tatcncatgt gccca 275

<210> 257
<211> 300
<212> DNA
<213> Homo sapiens

<400> 257
ctgttcactg gcacacaatc acagtgtctt gatagttttt ctggttttga atttctggaa 60
gggaaatcct ccttctgagg agacttcact ttccgtcagt aatggggaaa actgtttccc 120
tcgggatagc agaggtcatt ttaaaagaga acactcagca gaaatgaaaa tccaaacaac 180
tgatttttaa ttcgtgtctc tttgttcagt gatgttggtc ctgattctgc ctatgagacg 240
ggaataaaga gagatttcgg gaaaagtgtg aagccaaaca tgggtgctat ttaaatacca 300

<210> 258
<211> 300
<212> DNA
<213> Homo sapiens

<400> 258
gtttctttcc catctgcctt ttcctgtctt tcagaacatt tctggggtgt tgtttgggct 60
cagcactgtg ggaagtgaag catttagcct agccagggac tgggcattat ctgtcagatt 120
accaaatctt gagttatctg tggtctacaa aagaaaagaa ggctgaagga accagacaga 180
gggacagtgg cctgggaaca gagccaagat gatcatgttt tttaaccaaa gcctgtagat 240
caccgtcaag aaaggaattt ggaggatagg agtatctaca tgtagtgggg gaggtgtggg 300

<210> 259
<211> 300
<212> DNA
<213> Homo sapiens

<400> 259
ctttacatca tctattctac ctccattcac tggtcaaaga agcgcagagt taagttggcc 60
agtgtggcgt ggacacagcc aggcgcagac cctcctgcca gcgaagccag cgtgaggtct 120
gttggctcag gggtccagtc cctgggtccc cgaagaggta agccaaagac atagtgatac 180
ttggttcaat tcggctccag agagtatcag atgggaaata gatgacttgt tttacctggt 240
caaataagac atcactaaaa tctaccatga ctggaaatta cttaatgcaa ccagaggaga 300

<210> 260
<211> 300
<212> DNA
<213> Homo sapiens

<400> 260
gacatttcca atagctcctt tgtgaatttc cagatatggg attttcctgg gcaaatggac 60
tttttggacc caacctttga ctatgagatg atcttcaggg gaacaggagc attgatatac 120
gtcattgacg cacaggatga ctacatggag gctttaacaa gacttcacat tactgtttct 180
aaagcctaca aagttaaccc agacatgaat tttgaggttt ttattcacaa agttgatggt 240
ctgtctgatg atcacaaaat agaaacacag agggacattc atcaaagggc caatgatgac 300

<210> 261
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 261
cagggatgtg aggctgctgt tgggggtggg gggaggggaa tgggcaggca agccagtctt 60
ctgtcttcct ttgctaactt agggttttga gcaggttggg gtatggtgcc tgacataccc 120
acctgccacc ctgggaacct cactgatctc tctttcagcc tacacctgct gatccatgat 180
gtgtgtgaat tgagggtgta tganngnnct ncatcaaccc canagatnaa taattcttct 240
atcaataatc agntnttacn actnaatgcc attcgnattc ttgntattca caaaagatct 300

<210> 262
<211> 300
<212> DNA
<213> Homo sapiens

<400> 262
gcactcggta aactctggga ctggagccaa gagactgtga gaaatgacct ttctcatcaa 60
gtttgtccca agccaggctt aaattgatag atcgtctagg ttttctgatg ctggtaaaga 120
gactctgtgc ctcagggaca ggtctgcaaa gatcattaag aaacagatta aaattaggga 180
gcaagacaag acaagagaaa gtttctttac gttctcccag acctctctgg gcctataggc 240
agatcaaatt tggcctctag atcagcttgg acaaaatgat gtccacggtg tctgagtagg 300

<210> 263
<211> 300
<212> DNA
<213> Homo sapiens

<400> 263
cagaggtgaa gtgatgtgtt caaagtcaca cgtagaacaa gtggtggaac agacccaacc 60
agtctgatgg cagagcctgc ctctgaccac tacactgtcc tgccaactaa gcaggtttga 120
aagagctctc ttagtaaaag ccctgcaggc gggagtgagc agaagttgtt ggtatcccag 180
tgactttttg aaatgcacag gataagggag ggtggatttt ccaagccatg gtaaggcagc 240
atgacctgac ccagggtgag ggagagggtt catgatgtaa acctcagagt agctagtcac 300

<210> 264
<211> 300
<212> DNA
<213> Homo sapiens

<400> 264
gacacccaga ggcagggcat cgagcgcctc aaacgaaaga accagcccag ggagcacatg 60
gggagctggc agtcagtaaa ggagaccttt ggtggggact tctccctgaa ctggttcaac 120
cccttctcca gaccgtgtca gccagagatc cccagtgaca aagacatggt gcggcaggtg 180
acatcgctgt cagacaccga aacaatggag gatccatcag aggagacaaa ggacgaggac 240
tctgtggagg tgacagatga atagatgctg ctgtggggag agaagcaaac actaaaaagt 300

<210> 265
<211> 300
<212> DNA
<213> Homo sapiens

<400> 265
ataaaacagg aattttggag cgggttgacc gaaggttagt gtacaaattt ggaaaaaatg 60
cacacgggtg gcaggaagac aagctatgat ctgctccagg catcaagctc attttatgga 120

tttctgtctt ttaaaacaat cagattgcaa tagacattcg aaaggcttca ttttcttctc 180
ttttttttta acctgcaaac atgctgataa aatttctcca catctcagct tacatttgga 240
ttcagagttg ttgtctacgg agggtgagag cagaaactct taagaaatcc tttcttctcc 300

<210> 266
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 266
aggatccaat actgcctttc aataatatac caaaatacta gttttataaa tgttgttaag 60
gtggactgga aaaactaata catattttga agtatttctc tgatttattg aggatatgat 120
gggcaaaggc aagctttctc gtaggtatta tgagagcaga cagatatttt agtgtgtttg 180
ttgacatgag agagtcattg gcagcgcagg gaatagagag ggaggactgg tctgattatc 240
tggcaatggg aaattgagtt tagtacggan aattgagagg ata 283

<210> 267
<211> 154
<212> DNA
<213> Homo sapiens

<400> 267
gaggaccgtc cctctcctcc ccctttccct ctttcggaaa ggggtttctg cggggcccgg 60
gagcctcgga gtaccgaacc tcgatctccg ggcggggtc cttggtgggg actgaacgcc 120
ccctcccggg gacgggcgga ctggccgcgg agta 154

<210> 268
<211> 300
<212> DNA
<213> Homo sapiens

<400> 268
tgagtcttca aaaagtatca gaagagaacc aaaatgcttt atgacaacag cagagcttga 60
gcatcttgag aaccaacttt gcccaagaat attgattagt agtttctgcc atggtcacag 120
gaaaggagaa tttagcattt tgtgtctctg tgtgtcatac ctgaataaga gtctattggt 180
gcaaaagagc atatccaata gtgatattca taaaataagt gacgcaaaat agtccatgca 240
ggatgggcac agtatttcaa taaaatacag gtagttaagt aaaggtaatt tctagttgag 300

<210> 269
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 269
aaaacaaggg aacagtgtgt aaggaacttg tgcacatcac tgactggtac cccactctca 60
ttttactggc tgaaggacag attgatgagg acattcaact agatggctat gatatctggt 120

agaccatagc gtgattgtta taattttata cttttataga gcacttgata ataaatgtat 180
cctnatntct atggntttta tccgtacaag tgtgctgcat tctantgnta cattntnggt 240
ntanctatna gtaccttatn atantcnttc ttnttntcat aatttgnttt ctga 294

<210> 270
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 270
accgggacca gaacatgacc ggctgggcct acaaaaagat cgagctggag gatctcaggt 60
ttcctctggt ctgtggggag ggcaaaaagg ctcgggtgat ggccaccatt ggggtgaccc 120
gaggcttggg agaccacagc cttaaggtct gcagttccac cctgcccatc aagccctttc 180
tctcctgctt ccctgaggta cgagtgtatg acctgacaca atatgagcac tgcccagatg 240
atgtnctant ncttggnaac anatggcctg tggtaatgtn ncttctgatt gtgg 294

<210> 271
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 271
ggaaatttgg gaagaatcca agaagtatag gccaatgaaa acaagttatt aatacaaata 60
gtactgtata tgagagtaca cattaggaat gctgtgcttt aatgcataaa catgtttaca 120
gtggtccaca tgtgccagga gatgtgggaa tggctacccc tgaagtcata tggagaaatg 180
gggtcctcat cgcacaccat acacanncat natcnnacan atggnttana gacncttaag 240
acctganncc aancaaactt ctaggannan actcanggta nagcncnatg nnatttgttt 300

<210> 272
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 272
gcacgccccc ttttctccgc cacttcacca gtttctgaaa tccaacctcc cagacttcac 60
aggaagatag atattcttga gataatgaaa agtgatatct tcgcatacta aaggaataaa 120
ggttgaggta tatatgattt ttaactgtat taggggtgta tgaaccagtt taaaaacgag 180
gttttattta ctgtacagat gaatgcaaat cagaaccaat gatcccttgg cctacttagt 240
tannaccngt tcatacatcc cttanggctt ttattattat tattattatt attacagac 299

<210> 273

<211> 300
<212> DNA
<213> Homo sapiens

<400> 273
cccacacctg cctggccaac ccctggcact gatgatgcct gggtgcgggt taagctggga 60
ggagctcctg cctgcctgga tgaagaggag gtcaagactt tgtcccccac tccgcaagat 120
accctctctg ttccggagcg gtgggtccct cccctgttag gaccttgtct ccctcaggac 180
tggacctgga tcctgggcct gcagtcagat tgccagtttc acttagaggt ggaaatgtca 240
acccactggt tggaatggga agctgctgtg ttgtgagcca ccttatggaa aacccatgtg 300

<210> 274
<211> 300
<212> DNA
<213> Homo sapiens

<400> 274
tgtctttatt tttttatatc tcctaaagta aaatctgaga atgacccaag aatatttgtt 60
tcagagggtt gtctttttgt tggcaagcag tgaagcacat gtaagtttct caagctttag 120
aatatatata tattaaaaaa caaaacaaaa aaaatgaagc acagacatgt tattttccca 180
gagccatcag tccaaagtat ttcactgtat tattagaagc aacaacttct aaacattcaa 240
ctattccaaa aataagattt tcctccagta agttatcatt ctcacttgat aataagataa 300

<210> 275
<211> 300
<212> DNA
<213> Homo sapiens

<400> 275
attcgaccct ggtgaatgat gcctataaga ccctcctggc ccccctgagc agaggactgt 60
accttgtaag ctaaagctcc atggaataga gattcctgaa aggacagatt atgaaatgga 120
caggcaattc ctcatagaaa taatggaaat caatgaaaaa ctcgcagaag ctgaaagtga 180
agctgccatg aaagagattg aatccattgt caaagaaaga atttactgac aatgtgagca 240
gtgcttttga acaagatgac tttgaagaag ccaaggaaat tttgacaaag atgagatact 300

<210> 276
<211> 300
<212> DNA
<213> Homo sapiens

<400> 276
tatttactct ggaaagtagt agcagcactt caaggacata ggggttgctc atgtcagttg 60
tttctgtttg tattggaaga atcataataa caaatattta agttggtaaa ttactaggta 120
aacaggttgg tggatttttt gttatttttg agaatacttt ttagtttgat tctttgaatg 180
aatttacata acagctttcc tgtcaagtca gtaatttcac ccatctttaa aaaacaagta 240
ccaaaagagt ttcttaacac catatactcc tctagcagct gctgcctagt ttctctcctc 300

<210> 277
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

<400> 277
gggagaagag ccgccagcgg aacccctgtg tgcaccaacc ttccccagag ctccggagcg 60
ccctctcctc acttccaggt tttggagcaa gagcttgcag gaagcccgca cccagcttcc 120
ttctgacctt cagttcactt tgtcgccctt ggagaaagct gtttttcttt aactaaaaat 180
aaccaaaatg ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaacnnncnc nnntaaaaaa a 281

<210> 278
<211> 125
<212> DNA
<213> Homo sapiens

<400> 278
ggagagcagg gcaagggctc ttgggcatca catccagagg ctgagggagg ggagacctgg 60
ctgtgttcgt ggaactgaag gaccactttc gcgactagac cttagccagg gggaggtgtg 120
ggagg 125

<210> 279
<211> 254
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(254)
<223> n = A,T,C or G

<400> 279
ctcctggtgg cttcaaattt actttctccc actctgccag tgctgctaat ggaacaaaca 60
gtaaatctgt agtggctcag ataccaccag caacttctaa tggatcctct tccaaaacca 120
caaacttgcc tacgtcagta acagccacca agggaagttt ggtngnntta gngnattatn 180
canntgatnn ngangaanan caannaaatn nnttntnnng aatnngtttt tttaananan 240
ngnttctnnt taaa 254

<210> 280
<211> 300
<212> DNA
<213> Homo sapiens

<400> 280
gtgcccaagg cgccccggact cggcctggtc ctggagaggg tgcacttcga gaagtacaac 60
cagcgctttg gcaacgatgg gctgcatgag ccgctggact gggcgcagga ggaaggaaag 120
gtcgcagcct tcaaggagga gcacatctac cccaccatca tcggcaccga gcgggacgaa 180
cgctccatgg cccagtggct gagcaccttg cccatccaca acttcagtgc caccgctctc 240
acggcaggtg gcacgggcgc caaggtgccc agtcccctgg aaggcagtga aggggacgga 300

<210> 281
<211> 300
<212> DNA
<213> Homo sapiens

<400> 281
gctttagctg ttagaaagga acccccgtga catgacacag acacacgtga acacccagcc 60
cgccggtcct agcagccagc tgtgaaagct gtgtcaagtc acgggggttc ccgtgtgtct 120
gtgtcatgga tgcaatgcgg gccctggagg actgtgcgtc acccgtcaac cagagcgtgc 180
ctccgggcca gcttccctcc aaggaatgag tggatttcat acaggatctc tttattgcac 240

agactgaatg gctttacatg tttctaatgt gaattaggca tgtgaagcag tgggtgtcca 300

<210> 282
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 282
atacatggaa gtctcaaatc tgaattttta tccatctcaa tatgaccatt tctctctgtt 60
gggagctgaa cagattaagt atatatctgc caggttggga aatattttgg tctatctttt 120
cctgtcatca gaacttaatt taaaaaaatt atcaaaggtc agatgtgact actacagtaa 180
gttggctatc ataaagaata ttccataaaa tgttttatct gccatacaaa attactgggt 240
ttatggccgg atgtggtggc tcatgcctgt aatcccanca gntcaggatt acngggtata 300

<210> 283
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 283
gctgcttcgg ggactcagcc agaaagctac tgaggtgctg agcgccgtcc tcaaggatct 60
ctaccacctg ctgaagcacg tagtgtgtct ggagcccgat gacgtggcca agctccatgc 120
ccagttggcc ctagaagagc tggatgacat catgaaaaac ttcctgttcc ctccacagaa 180
gctggagaag aagatcatgg tcctgccgta gacctggctc caaggacngt ggaggaggca 240
gncanggcca ggnacccaga gncgtgccca ggtctttcan caggtggcct gctgcctctt 300

<210> 284
<211> 300
<212> DNA
<213> Homo sapiens

<400> 284
gctacacaac actgctaact tgactgtagc tatgtaataa cattagatcc cctaattgta 60
attatattgg gtttgcacag aacactttaa tcttcccctc accaatgtga agtgaggaat 120
caggagtcaa actgtagaac taaaatttga cttcagtcta gcgtttcctt ggtgttttta 180
ggttgctttg gtaagtttag gtttgctata tttctgattg cttagaattt tgttttagcc 240
ctttaaaatc agatcataaa tatgaattca tacttctaag gaattttctt gctataagct 300

<210> 285
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)

<223> n = A,T,C or G

<400> 285
atctgtatat ctttcctttt gtttacaact gttaaaaaac ctcaaaatag ctctcttcaa 60
aagaagagag attccaagca acccatcttt cttcagtatg tatgttctgg acatacttat 120
cggagcgcgc cagctaagng ntcaagcata tanacattgt cngntggnan ngnctngttn 180
acagccactn nngcattggn tncacgccnc nggancncgg tgnggctctn ncncntantn 240
ccntnnntnt gcnnttaccn cctcnnnnnn ncnntatntg gccttc 286

<210> 286
<211> 300
<212> DNA
<213> Homo sapiens

<400> 286
ccaacctaaa atatcattat tttcaatact taaatattag cccatcattt tttatcttca 60
gatgtctata attggaagcc tatatagaaa tggttgatga gcctatcggt tgaaccactg 120
cagagaatag agtgatggtc ttagggcatc ctgtactttg catgctcctc ctggaagtaa 180
agagtaagac agagaatagt aataatcacc cattccagaa ctggttgcac aacatcacaa 240
aagcttgtcc agacttatta gcaagttaat aaaaaactag acttctttct aagtacttat 300

<210> 287
<211> 300
<212> DNA
<213> Homo sapiens

<400> 287
ggtgggtggc agagggaaat ccaacatgca gactgtggca gtgtcttgaa cttctgttta 60
ttcaggtcat tgaataagaa actcttttct tctgcattcc tgtctttctg catgtgtgtg 120
tgtgtgtggg ctgggtaggg actgtttttg agatcactgg gctgaaatgt attctagggg 180
tgaaggatct aggatgtacc tgctcgtcat ttcctgactt cacctttac caattctttt 240
cttaacaaat ttaaaattgg tcagagcagg agctgctagc tggcttttta acagtgtttc 300

<210> 288
<211> 300
<212> DNA
<213> Homo sapiens

<400> 288
gtcacatcct cttaagtcag gaactatctg tataaggaaa caagatttcc attttatcat 60
ttgaaatgta tttgactttg tttcactagt tgcattatcc ccatggaaaa cttcacattg 120
agaacttacc attatatatt tccataaaaa tgcatgaacc atcccttagc taagtaagga 180
ttttgtaatg ttctctcaat aatgttgctt ggcaaagtta atattttttg tatgctgatg 240
aaatttagaa aagtccaata ttgagcttga ttgcaaactt agaaaaactc aagacttctc 300

<210> 289
<211> 300
<212> DNA
<213> Homo sapiens

<400> 289
aagggaagca ttccaaagat tttcactgtt tatgttcaaa ttacaacatg tgcagaaagt 60
tgtgcaactg aaaatccttt caaacaacag ctacaaaaga gattggtcag ttaggacagg 120
aatagaaagt ggaaacttag aagactggct actccttgtg tatgattgct ggggtgagtc 180
tgtgctgaga actttttaca aagggtgtcc tttgctgata tgagaggggg gtgtcaaact 240
tttgagtgat cactgtgggt cctcagctta gacatcttct ctggcccaag atggcacccc 300

<210> 290
<211> 300
<212> DNA
<213> Homo sapiens

<400> 290
ttgcttcggt cactagccca ggagacattt ccccacccat agacctagtc aagaaagagc 60
cttatgggct ttcaggactg aaaagagctt ctgcttcttc tctcagatcc atctctgcag 120
ctgaaggaaa caagagctac agtggatcta ttcaaagctt aacttctgta ggttccaagg 180
agacacccaa agcttcacca aacccagacc tgcctccgaa aatgtgcagg agattaagac 240
tagacactgc ctcaagcaat ggctatcagc ggcctggctc agtagtggca gcaaaagctc 300

<210> 291
<211> 300
<212> DNA
<213> Homo sapiens

<400> 291
cgcgctttga aaaaatgaga tcagcaaaac gcaggcaaca gacctaatac atttcaaaac 60
ttgatatttc attttgcgtt ttagctagag aagttttcct tgtgacttac taatggctgc 120
aatgccaatg attgtaagaa aacaaacaaa tttatcatga aattctcctt gtcattttat 180
aaatgcctat tttaacatca tttatggttc cagagatgca tacacttttt tctgacaaga 240
aaaagtaaaa ggtgatgagg gcaattctgt cctactgttt ttacaggcct ttttcaaatg 300

<210> 292
<211> 300
<212> DNA
<213> Homo sapiens

<400> 292
ctcaagcaaa gttcctgtag acaaagtaac accaagtact cttccagaag aggtactaga 60
ttttgaaaaa ttccttcagc aaacaggagg gcgacaaggt gcctgggatg attatgatca 120
ccagaacttt gtaaaggtga gaaacaaaca taaagggaag ccaacattta tggaagaagt 180
tctagaacac cttcctggaa aaacacaaga tgaagttcaa cagcatgaaa aatggtatca 240
aaagtttctg gctctagaag aaagaaaaaa agagtcaatt cagatttgga aaactaaaaa 300

<210> 293
<211> 299
<212> DNA
<213> Homo sapiens

<400> 293
aacaacaaaa atctgaacag aaatgctcta tttacgttct tttccttatc tgtagtgttt 60
taaagtcatt aaacttaaaa atgatgttca ggagaagatg agtgtatttg catagtctgt 120
cataactctg gtattatttt gtacaaggag tgtgttaggg ttttcagttg taaccatgca 180
gaaaatctac aaaataaaag cagttgttaa ttagtccttt acaatcagaa ttgtctattt 240
tggaaattta tgaagtactt cagatgtaat ttaagaaatt gtatttgagc caagcgtgg 299

<210> 294
<211> 300
<212> DNA
<213> Homo sapiens

<400> 294
attagaccaa aaaaatggga tgcgtgtggg acagctttta aagtgtttga aagatttgc 60
attcaacatt caggctatca gtgactcctt gagtgaacta tgtgaaaata agcgtgacaa 120

tgtagtcctg gcatttaaac aattgagtca aacctttttat gagaaacttc aagaaatgca 180
aattcaaatg agtcaaaatc atttagaata acaccatgga aaactttcaa gtctgattat 240
gtggtattta tccctttgca aggagagata taattaagct tacacaatga aatggaaaaa 300

<210> 295
<211> 300
<212> DNA
<213> Homo sapiens

<400> 295
gtaatccttt ctttttcttc tccctctttc ctgctcttac ttatacagtt aggtgaatat 60
gatgctccac ttccccccaca gatactcaaa tagctctgac tgctgaaata ttggtatctt 120
actgtcagca cataacttgt tgctgtgtta ttgacatttt cactgttttg aaatttttac 180
tgttatctgg gtttgaatcc cagctctccc aagcttcagt tttctttcat ttgtcaaatg 240
agataaaagt atccacttca tagggttgtt atgaggatta atgatgaata caaaacactt 300

<210> 296
<211> 300
<212> DNA
<213> Homo sapiens

<400> 296
gtattcagta agtaccaact atggtgctaa cgtgagttcg atacgaaaaa agctgagatt 60
catctatatc cattttagag gaaagaagtg ctatgacctt tccaaacttt catttctcta 120
tcccaaagtc tcatctaaac agattttact actttatgat ctatgtttaa agtccttggg 180
ataaaaagaa caaacccaag aatgaggagt cttacttcta cacttttatg atttcttata 240
ttggcattag acataaacat gtctgagagg ctgtctggtc caactgtctc tggtcacttc 300

<210> 297
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 297
ggccctaata cactctttgc cctgtggcct ctccctttc ccccccttctg gttggaggag 60
ggagaagtgg caantgnngc ncncacagan nanctgactn gttgactncc ttatgctacc 120
ntgggtgact ncatattgcc cctnnatgat tncaacacca natatagcaa atgacattta 180
catgctatga aaacatctat tgggtaaaat cagatcttgg atanagaaat tctcgacttt 240
tatataannt tttgntanac ngnananaca gaaanggntt aagtgg 286

<210> 298
<211> 166
<212> DNA
<213> Homo sapiens

<400> 298
gattcatctt cttgttcttt aaaagtcaaa aggcttttttg acctttaaat aactcttaca 60
tctggtcatc actgttgaaa tgttctacta aattttcaga gtggaaaagt tttaggctta 120
aaactgactg gtaaaaatag aatatttctt tgtattgatt tttcag 166

<210> 299

<211> 300
<212> DNA
<213> Homo sapiens

<400> 299
tgaaggtcta caacccagtt agggcagaat ggaggcaaat gaataatatt cccttggtct 60
cagagaccaa caactacaga attatcaagc atggccaaaa attgttgctc atcacctctc 120
gcaccccaca gtggaaaaag aaccgggtga ctgtgtatga atatgatatt aggggagacc 180
aatggattaa tataggtacc acattaggcc tcttgcagtt tgattctaac tttttttgcc 240
tctctgctcg tgtttatcct tcctgccttg aacctggtca gagtttcctc actgaagaag 300

<210> 300
<211> 300
<212> DNA
<213> Homo sapiens

<400> 300
gttaaccttt tcaggctcca ccatacccag gctcttacct tagcagaagc ctgtgaagct 60
ggtagcagaa acgagaagga acaaaattaa ctccaaggca gtaagccatc cacaagacca 120
ctacacgaag ttaaggctgt gtgaaagagg gagtttattt aattttattg ttaaagaggc 180
aataaaatat ctagagaaac agtccattaa aaaattggca aatccagcct ggccaacata 240
gtgaaacccc atctctacaa caatacaaaa attagctggg tgtggtggcg catgcctgta 300

<210> 301
<211> 300
<212> DNA
<213> Homo sapiens

<400> 301
cgggagtgaa ggcgcggagg cccgagaaag gataaacaag acaccgcctc atcagataag 60
aacgtctcct tcgatgtcac ggatttcaag aggtagctgg agaaactgac gtcaggagtg 120
tcctgtgaat gaacatcgcc cgaggcctag cacccacaga agaagggttc tattttactc 180
tactttgctt gatattattt attttctaac aaagtgatcc gtagtctgca accttaggct 240
ctgacaggca aagcccattt cttagctctg gggatggctt gcagggtctc cacctctgtc 300

<210> 302
<211> 300
<212> DNA
<213> Homo sapiens

<400> 302
gagttggtca ccgtggccca ctatgacagc cccgaggccc tgagccacct ctgctgccgc 60
ctggtcagta ggggaagcaa ggtgaccgca agggggtatg atcagcagcc cacttgttcc 120
agggttcacc ggggccccca accgtttcta ctgcagccaa accagatagg ctactggtgg 180
ggcaagtcca aggtctccga ccatgccacc tgccctgggg gctcccctgg aaccccggcc 240
cctggattca gctctgcagc ctcctccgca ctcaggatca gccctcctgt cctgcactag 300

<210> 303
<211> 300
<212> DNA
<213> Homo sapiens

<400> 303
gatacctgtg cctgacacat ctgggcaaac tgtggcactc aaagcagatg agaaaaccat 60
gaaagaatcc aggaggaaaa cagatttctc acgaaggaaa ggcgattcca tggacagctc 120
ccttcttagt aggaactgtg gaaaccagaa gtagctttaa agtgctggga taaaactgtc 180

tttcaaggat aagagtgaaa acaaagacat actcagacaa aaactgaaaa catttaccac 240
aaacaaactc accttaagca ggcaaatggc cctcgatgtg gaaagcaaag ctcaggggac 300

<210> 304
<211> 300
<212> DNA
<213> Homo sapiens

<400> 304
cctcgtccca ggaggccacc cctgagaaag agtccctggc tgagtcggca gccgcctaca 60
ccaaggcaac agcgcggaag tgtttgttgg aaaaagtgga agtcatcacc ggggaggagg 120
cggagagcaa tgtgttacag atgcagtgca agctgtttgt ctttgacaag acctcacagt 180
cctggcttct ccgccaccca cacccttccc accctgctgt ggggccctgc ctttgtgggg 240
agcagccagc cctctgcccc tgcccagggc tccccaacta taggcctggg acccccgccc 300

<210> 305
<211> 300
<212> DNA
<213> Homo sapiens

<400> 305
tgttatttct cagcacgtat gtagcagatg aggaaatgaa ggctaaaggt catatatcta 60
caaagtgggg aggtcagact ttgaacccac aacctgactg tggagccact tcagtatact 120
ctctccccat aagaaagttc caatagaaaa aaaatgctac ttaagtaggg aaatcacaaa 180
ataagtgcca atgaacaata aatgttcaac ctcactacag ttaaaatgta tattaaagca 240
agagttgaga tgacactttt ccttataaaa cagacaggga ttcagggaca ttgggactct 300

<210> 306
<211> 300
<212> DNA
<213> Homo sapiens

<400> 306
gccatgtacc gggttccaaa gaaaactaat ttatcagact ttgagctgga agtatccgaa 60
aggcattcat gttgagactt tagaaactga aaagaaggag cgatatatag ttatcagcaa 120
agtagatgaa gaagaacgca aaagaagaga gcagcagaaa catgccaaag aacaggagga 180
gctgaatgat gctgtgggat tttctagagt cattcacgcc attgctaatt cgggaaaact 240
tgttattgga cacaatatgc tcttggacgt catgcacaca gttcatcagt tctactgccc 300

<210> 307
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 307
aaaaagcatt caacatgcaa ataggtggta tatgttgata tcttggcctg actggctgct 60
aatttctgaa tcaatctgtt tgtgcattta agtcatttat tctctatttc aaaaagattg 120
aatctattaa agtcttaaga tctgtcttcc attataatgg tgaaagattt tgaccagata 180
agggaaaaga naacacaaca gcttgatttt gggaacncag atcttctcan agggggccac 240
tttacanaga gattgntcac cnatngca 268

<210> 308
<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(252)
<223> n = A,T,C or G

<400> 308
ataagacacc aaatcaaagt ggtgatagta aatatcattg ccttggttct cacctcagag 60
actagtgttt caccattaag tgtgatatag cttagttttt tataaatact tgggagtgaa 120
tttttaactg ggtcatagag gattgttgga tttcagcang tagaaatcag nggaaattan 180
ntctccagac acngggaaga gacnctagtn gnannncnnn tggnntnctt tggctntaga 240
ttanngggan at 252

<210> 309
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 309
gaaagattct caaggaagaa gtaataaggc attacatctg aagagtgatg ctgaatttac 60
aaagatattt ggccttacta aggatttgag agtgtgcctt actcgaattc ctgaccattt 120
gacctctgga gaaggtttcg attcctttag cagnntggng annantnnnn cnnnntnntg 180
tcacnntnnn tttgcctcnt nnctnntntn tcncnntcnc ntnnnnggnt atngtcnncn 240
nnnnatnttn ttnnnnttnc tcctcttt 268

<210> 310
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 310
ggagcggcag gcccaggccc aggagagtga ggaggaagag gagagccgga gcaccaggac 60
actagagcaa gagatcgaac gcctgagaga agagggttcc cggcagctgg aggaacagca 120
gaggctcatc cgggagcaga tacgccagga gcgtgaccag aggttgagag gaaaggcaga 180
aaatactgaa ggccaaggaa cccccaaact aaagctaaaa tggaagtgca ngaaggagga 240
tgagtcaaaa ggtggctact ncaaagacgt tctcctacgn cttttgctta agtat 295

<210> 311
<211> 300
<212> DNA
<213> Homo sapiens

<400> 311
aagagaagct atgaaaagct tcagaaaaag caaatgaggg aattcagagg aaataccaaa 60
aatcacaggg aagatcggtc tgaaattgag aggttaactg caaaaataga gcgcctcacc 120
atgagggtca atgacttggt tggaaccagt atgactgtcc tacaggagca gcagcaaaaa 180
gaagaaaaat tgagggaatc tgaaaaacta ttagaggctc tgcaggaaga aaagagagaa 240
ttgaaggcag ctcttcagtc tcaagaaaat ctcatacatg aggccagaat acaaaaggag 300

<210> 312
<211> 300
<212> DNA
<213> Homo sapiens

<400> 312
cccatcctat gggttgtctt ttgacttttt ggttagtgtc ctttgaggca cgtaagtttt 60
ttaagttttt ctctgttttt tagcatcata tctaagaatc tactccaaat ccaaggtcac 120
agagatttac catgtgtttt tatctaaaag ctgtatagtt ttagaagtca gttcctctgt 180
cctaccagcc acatttcagt gatcacatga tgtggctgat gtccacagca cttgtcagtg 240
cagataaaga ccatcataac agaaagttct tttgcaaaaa aacaactttt tttttttttg 300

<210> 313
<211> 300
<212> DNA
<213> Homo sapiens

<400> 313
gaaagaaaat attttcacat gtatctagca gcaatatagt ttacaataaa ccctaggtgg 60
tataatgtga tgtacattac acatgaacta tctacactca ctaaaagcca ttatttaaga 120
gtaagctcac atagcacacc tatttccttg gtgttgcaaa gcttgaggtt gcacagcttt 180
ctcattttgt agagcaaatg acagttttca tcaacagacc aatggattca cagctaagaa 240
taagacaact tgaaaactcc acgttttaca aaatcatttt ctattaaatt ataaaaacct 300

<210> 314
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 314
acctcaaaaa aaatgctgat atcctaaaat attcctagta tcctaaaata ttccataaat 60
cagatatcct acaaagccaa actggtcctt cttgttaaaa ttaataagat tctataagct 120
gttaaccaaa aaagtttcca ctaacactgn atacttanct ctcctaanta catnnattta 180
ngcttgctgn nantnntann nggnccntnn ttgnnnnnac ttgncncnna gctattnnnc 240
acnatatccn gtgnntnagt nc 262

<210> 315
<211> 300
<212> DNA
<213> Homo sapiens

<400> 315
gctgttgcac ttgccacgtt atcttggagc ctcgggttcc ccgcgtcgcc tgtggtggtc 60
cccgtccctc gacaccatct cctcggtggg ctcttggcgt ggtcggtcct ccaagtcctc 120

ggcccactgg aatcaggtag tgtcagaggc ggagaagatc gtggggtacc ccacgtcctt 180
catgagcctt cgctgcctgc tgagcgacga gctcagcaac atcgctatgc aggtgcggaa 240
gctggtggca ctcagcaccc tctgcttacc acagccaggg ggcttgtaca tgacagctgg 300

<210> 316
<211> 300
<212> DNA
<213> Homo sapiens

<400> 316
ctagagcaag agatcgaacg cctgagagaa gagggttccc ggcagctgga ggaacagcag 60
aggctcatcc gggagcagat acgccaggag cgtgaccaga ggttgagagg aaaggcagaa 120
aatactgaag gccaaggaac ccccaaacta aagctaaaat ggaagtgcaa gaaggaggat 180
gagtcaaaag gtggctactc caaagacgtc ctcctacggc ttttgcagaa gtatggtgag 240
gttctcaacc tggtgctttc cagtaagaag ccaggcactg ctgtggtgga gtttgcaacc 300

<210> 317
<211> 300
<212> DNA
<213> Homo sapiens

<400> 317
gagagtggct accttaaaaa tgcaaagttg aagaactgta acctcagagg agcaactctg 60
gcaggaactg atttagagaa ttgtgatctg tctgggtgtg atcttcaaga agccaacctg 120
agagggtcca acgtgaaggg agctatattt gaagagatgc tgacaccact gcacatgtca 180
caaagtgtca gatgagaatt ttaggggctg gaggaagatg taaaagatga aaatgttttc 240
cttatcactt ttctttctcc acccactcag ttgtctagaa gaaataacac tgtaaggaaa 300

<210> 318
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 318
tcttcagaag gtcaaagcaa aacagaatct gatttttcca acctagactc tgaaaaacac 60
aaaaaaggac ctatggagac tggattgttt cctggtagca atgccacttt caggatacta 120
gaggttggtt gtggagctgg aaatagtgtg tttccaattt tgaacacttt ggagaactct 180
ccagagtcct ttctgtattg ttgtgatttt gcttntggag ctgtgganct cgtaaagtcn 240
cacttgtnnt acanatcaac ccangnnttt tgccttnntt catgatgant nngatgatgg 300

<210> 319
<211> 300
<212> DNA
<213> Homo sapiens

<400> 319
ctcaccaccc ataccctccg tcccccgccg gcctaccact atctagacac ctcctgccct 60
ctccatatgg ctccgcggga ttgtttccct ccctagcccg acttctccaa taaacagcaa 120
cttcctgctt ctccagcaag tcgcataaga agaactggaa tcttgacact acaactcctg 180
acaggacgcc cctgcggcat ccagagacag ggaagccagt gctgctctgc atgttcaggg 240
cgagtagctg agagtctcct tccggcctgg atactgagga aggtgactta gactttctct 300

<210> 320
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 320
gtgacttctg tggaaaaaaa attaattctt taccattgca gcgttctgcc ctaggtccaa 60
atgttaccaa aatcactcta gaatcttttc ttgcctgnaa ganaangngc tnacanganc 120
agattgttat nctngaacag nactgggaat nagatcantt atgatnnntn tancggtnat 180
tngcnccntt gtttanntat tcnnnataca tgnttntntt aattataatn ccacttttct 240
anattatttt gtagtcggna actcaanact ttttnnntca gtaagttgtt a 291

<210> 321
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 321
tcttcagaag gtcaaagcaa aacagaatct gatttttcca acctagactc tgaaaaacac 60
aaaaaaggac ctatggagac tggattgttt cctggtagca atgccacttt caggatacta 120
gaggttggtt gtggagctgg aaatagtgtg tttccaattt tgaacacttt ggagaactct 180
ccagagtcct ttctgtattg ttgtgatttt gcttctggag ctgtggagct cgtaaagtca 240
cactcgtcct acagagcaac ccagtgtttt gcctttggtc atgatgtatg ngatgatggc 300

<210> 322
<211> 300
<212> DNA
<213> Homo sapiens

<400> 322
gccacgtttg caaaaatgca gcaaaaaagt tacttagtct ggctgtttag tagaatttac 60
ctctactcat tcatcagcct ctttatatat atgattttaa gtcttttcat tgcactgatc 120
actgatacat acgaaacaat taagcaatac caacaagatg gcttcccaga gactgaactt 180
cgtacattta tatcagaatg caaagatcta cccaactctg gaaaatacag attagaagat 240
gaccctccag tatctttatt ctgctgttgt aaaaagtagc tatcaggttt atctgtactt 300

<210> 323
<211> 300
<212> DNA
<213> Homo sapiens

<400> 323
agaaggtcgc ctctaccttg cccagaacac aaaggtgctg cagatgctgg agggaaggct 60
gaaggaggag gacaaggata tcatcaccag ggagaatgtt cttggggccc tgcagaagtt 120
cagtctcagg cgcccgctgc agacagcgat gattcaagac ggcctcatct tctggctggt 180
tgatgttctg aaggaccctg actgcctgtc tgactacacg ctggagtact cggtggcttt 240

gctcatgaac ctctgcctcc gcagcacagg gaagaacatg tgtgccaagg tggcaggcct 300

<210> 324
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 324
gcacctgtag tcccagctac tcaggaggct gaggcaagag aatcacttga acccaggagg 60
cagaggttgc agtgagctga gatcacgcca ttgcactaca gcctgggcaa caagagcgaa 120
actttgtcta aaaaanaaan cactgggctt attcatgctc tgatcacatc tntcgtaaaa 180
gcttaagctc tntccggggt ccgggttggc cgtnccgtgn aattctggtn ggccngnntg 240
nggtctctgn aaatgtggct gncngctnag ancnnnnact ctgac 285

<210> 325
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 325
gcacaccctc ccgtggtggc tgttcctccc tgtcacctgc ctcctcatca tggaaggggg 60
ggggctatga aagccggtct caaagataac tgcatccttc attccaggaa agccctagaa 120
ttagggcaca ttgcaaactg aaatatgact ataattctta tgggaccaaa tttaagcaat 180
ttttgttttt ggctgaagag acaccaaaat attagaggac aaatattttt agatccattt 240
aaggagtttt gaagtgccta ntangaccta tttgncagtg gngnnattta att 293

<210> 326
<211> 300
<212> DNA
<213> Homo sapiens

<400> 326
ttgtgaacca gatgatgaaa gtggctatga tgttttagcc aaccccccag gaccagaaga 60
ccaggatgat gatgacgatg cctatagcga tgtgtttgaa tttgaatttt cagagacccc 120
cctcttaccg tgttataaca tccaagtatc tgtggctcag gggccacgaa actggctact 180
gctttcggat gtccttaaga aattgaaaat gtcctcccgc atatttcgct gcaattttcc 240
aaacgtggaa attgtcacca ttgcagaggc agaattttat cggcaggttt ctgcaagtct 300

<210> 327
<211> 300
<212> DNA
<213> Homo sapiens

<400> 327
gttgcactgg tgcctcccct cgaaccgcca agcagaaacc ggacctcaca gctgactggg 60
aactggacat gtggaagagc tgctggctgc atcagggaac aggaggagga agagggtcag 120

ggtggagagg aagatcagtc agtgggcaca agacagtcaa atgggcaagg cctgcctcgg 180
ggaactagaa ccttccagga tctggagccc gggagagcca cactgtgggc ttaatgtgaa 240
tagaggaaca agtgggtatc tctgccaggc accccacttt ctcctagtaa catgggctca 300

<210> 328
<211> 300
<212> DNA
<213> Homo sapiens

<400> 328
ctggtcaggg tttgactcag gaagctgagt tccagcttgt ttccttggca gcactgccaa 60
agagttagac caagctgcag cttttgaggt gaaaggggat ggaagaaagt actgttactt 120
ttccacttag aatttttgga ctttgttctt aatgaatagg ttcattttca atttcaaagc 180
aaagtgttaa catttttgaa atttgtctca attctaaagg ccaaacttaa atatgtctcc 240
tcctactggg gcatggagca agttattcat caaatacaga ttctcgcatg gaaaagaaag 300

<210> 329
<211> 300
<212> DNA
<213> Homo sapiens

<400> 329
aatggatgct catatattgc ttatggatat tttggatacc aaagtaggaa taactgacat 60
tcagtatttt aaagctggca aacctgtaca tagaaaatag atccccagac agtggtctat 120
gaagagggca gttaagtatc aaatacttaa ttttcttgcc tttttttctt aagtggggaa 180
aagtttctag atctcttaca cctctgacac aatctgttct aaaacaggca cttgtaatgt 240
tggggcctcc ttgtaaacgg tgtttttgcc ctttactctc tgggattaca ggcgtgagcc 300

<210> 330
<211> 300
<212> DNA
<213> Homo sapiens

<400> 330
gccaggctgg tctcgaactc ctcacctcaa ctgatcatct gcctcggact aagtgctggg 60
attacaggcc tgagccaatg cgcccagcct actttctata aaagtcgtca tgtctctgcc 120
cccacccccc gccacccccc acatagtctg tttcatttga ttttcccctt agtttagtgt 180
tttattttga tgtttcttca gatgccttgg gatcattcac tgttcctcat atttaagagc 240
aaatgcttaa aaattcttag aaataccttc ttgaaaagcc tgcattccta ccacctctca 300

<210> 331
<211> 300
<212> DNA
<213> Homo sapiens

<400> 331
tcgagaccag cctcagtaat gtagtgagac cccatctcta caaaaaaata aaaataaaat 60
aaaatttcta agtacttgtc tatttgcagt ttactattct tgctagaatg tatctcttca 120
gggttttggg gtttacctat gccccttca attttgggtt ctctcaaatg ccagatgtat 180
ctcctagaac tctttgggat ttttagctct ctaatacctt tagacattta aaaaatatat 240
atttggatg ttttagttat cttcagaggc aatgttaatc cgaattatca aggtagtcat 300

<210> 332
<211> 300
<212> DNA
<213> Homo sapiens

<400> 332
gaaacgctga ctctgcctct tagcccctgg gttgaagccg actagagaat ctcagacgtg 60
cttaaccggt ctgttgggct tccctgccct tttccagtcc caggtttcct ttccctgctc 120
ccttcctgct tctaatttca gccaaagaga aagcaaagat ttagaaaaga agggtaggaa 180
gaagctggaa tttgaattgg caagagaagt ttgaggttgt cttttctaga tcaaaacaat 240
ttttaatagg ctgatgttca catgttgcac tttctaaagc ccgtgcttga cctcctaagg 300

<210> 333
<211> 300
<212> DNA
<213> Homo sapiens

<400> 333
ccatcataga gcatttaggt tcttttcact ttctgttgtg aataatgcaa tgttgaatct 60
gagttcatta agtgaagagt ccagctgcac actgcaggcc cagtctggat gtaggtgctc 120
agatggttct ctttgagaca ggctttatcc tttggctctc attttttga tgagtgtaca 180
tggcatgagg gacacagatt ccgctagaat tcaaatccca cttgtgtata acctagggca 240
gtgtgccaca tctctgcaca tctgttcatt gtaaggatta catgtttagt gtatataaag 300

<210> 334
<211> 300
<212> DNA
<213> Homo sapiens

<400> 334
ctgggaagga ataattcaat ttgattggca gatatatata atacagtagg agaataatgg 60
gagaaagata aattgagact agaataggta gactttaaat gcctgtctgg tttaggtatt 120
tgaactttca aggtgtggta aatgtttgag taaaggaata atgtgtccaa agattattat 180
ggaattgtct ctctgcatac ctctatcgct gtttgtcaca gctgtgttct tatgtgactg 240
attcttcctg aagattagaa actcctcaaa gactggttat tagagcttat tcttcattat 300

<210> 335
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 335
gttggaagtt cctaattctt tcctcggtta actgtgaaac tctgcgtatt gggaaggcct 60
ggcctcagtc atcaggccag gagaggtact ggacgccgcg cacgcactcg tctgccagcg 120
aggcccaaag gggaagccta gcggagctca gtgtggcagc tgctggcctc tgggccggtt 180
gtgcatctaa tcatccaaaa aattcagctc anaacctgac taaagatagt actttaaaac 240
atgaaggctt ctattcagag aacttaactg aatctagaaa attcctgaaa agtagggaaa 300

<210> 336
<211> 300
<212> DNA
<213> Homo sapiens

<400> 336
gagatttctt ctaatggccc aataatatcc ttcagtctcc ccacctccaa tatccaaagt 60
tctgtcaagg atcacatact acatttggtt ctttattata gactttttaa atatcgttgt 120

ataccattgt gattctatcg tctcctttaa taaagaggag aaccagaaaa atgaaaggtc 180
ataagaggaa tgaggtttgg agaataggtg aaaaaaggca tcataatgtt tataataatg 240
tttgcctgtt cagagaaaca agaatcacag ataaagtcac ttatatgtag ataagagaat 300

<210> 337
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 337
gctaaacatc aaaaacagat ctggtagggg cggggaaatg agggggaaga aacatangcg 60
tgntggtgcc nttatnctgc attannaact ttanttcnat gtntgtnttn ttntttcntt 120
nancgnancc ttttatttat ntttttttcct ttttctnttt nttatttntt tnntnttatt 180
nttttntgtn tttntttnnt tttttttnat gntntnantt tgnnttantt ntnttttttt 240
cnnttntttn tattatcttt nttacttt 268

<210> 338
<211> 300
<212> DNA
<213> Homo sapiens

<400> 338
gggacccagt ggacttcttc ctgctggtgg tggtagtagg gatggtactc atgggcattt 60
tcttcagcac tctgtttgtc ttcatggact caggcacctg ggcctcctcc atcttcttcc 120
acctcatgac ctgtgtgctg agccttggtg tggtcctacc ctggctgcac cggctcatcc 180
gcaggaatcc cctgctctgg cttcttcagt ttctcttcca gacagacacc cgcatctacc 240
tcctagccta ttggtctctg ctggccacct tggcctgcct ggtggtgctg tccataatgc 300

<210> 339
<211> 300
<212> DNA
<213> Homo sapiens

<400> 339
gtcaccaact tgaaaccagc aaccatcaag gtctatgact actacctacc agatgaacag 60
gcaacaattc agtattctga tccctgtgaa tgaggatagg agctggaaac tcaattagtc 120
ctctgtgaca ttactggagg gtggaacatt cttctgtcgc ttgaagcaga actcattcaa 180
tcaaataatt taatttctct gactagtata tgggtaacaa atgaatatgt ctgaacctca 240
gctataatac tttctactac ctttgcaagg agatgggata ggaacaatca ctcagaggag 300

<210> 340
<211> 300
<212> DNA
<213> Homo sapiens

<400> 340
tgacaccaaa tgccaaccca tcccaaattt acaacatcga ccctgcccgc ttcaaagatc 60
tcaacctggc tggaacagcg gaggtggggc ttgcaggcta cttcatggac cacaccgtgg 120
ccttcaggga cctgccagtc aggatggttt gctccagcac ctgctaccgg gcagagacaa 180
acacgggaca ggaacccсgg gggctgtatc gagtacacca cttcaccaag gtggagatgt 240
ttggggtgac aggccctggg ctggagcaga gctcacagct gctggaggag ttcctgtccc 300

<210> 341
<211> 300
<212> DNA
<213> Homo sapiens

<400> 341
atcatattca agttggcagg tttgactgtt cctctgcacc agacatctgt agtaatctgt 60
atgtttttca gccgtctcta gcagtattta aaggacaagg aaccaaagaa tatgaaattc 120
atcatggaaa gaagattcta tatgatatac ttgcctttgc caaagaaagt gtgaattctc 180
atgttaccac gcttggacct caaaattttc ctgccaatga caaagaacca tggcttgttg 240
atttctttgc cccctggtgt ccaccatgtc gagctttact accagagtta cgaagagcat 300

<210> 342
<211> 300
<212> DNA
<213> Homo sapiens

<400> 342
ctggacagaa gtctattctc cttctcagca gcggtggctg cactgtgatg catgtgaaga 60
tgtctgtgac aagccactcc tttatgaaat aggatggggc aagaagcttt cctatgtcat 120
agcattttca aaagatgagg tagttgatgt cacttggcga tattcctgca aacatgaaga 180
ggtgattgcc agaagaacta aggttaaaga agcattactt cgagacacta ttaatgggct 240
taataagcag aggcaactgt ttttgtcaga aaacagaagg aaagaacttc tccagaggat 300

<210> 343
<211> 300
<212> DNA
<213> Homo sapiens

<400> 343
gagctgatcc tgcatcatgc ccgggccagc gagtgcaggg acgtggaggg gttcaaaacc 60
gagatggcca tgctggtgac ccaggccagg aagaacacca tcaccctgga gaagcttcat 120
gtgtccagcc ttctctctag tgtctttaag ttgctgatga ctcacaaggt aaagcttgag 180
agcaactttg cctccattgt gtttgccatc atggtgttgg aggggcttgg ccgctcactg 240
gaccccaaac tggacatcct ggaggcagcg aggccccttcc tcctcacggc ccagtgtgcc 300

<210> 344
<211> 265
<212> DNA
<213> Homo sapiens

<400> 344
gtgacctctg tgtttctata actatgttaa tgtgacctgt aaaacagttc acttctcaac 60
aagtcagctt cctcatattt aaaatgagaa gttgtcttga gtttctaaag atgtttaggc 120
tgcattgtct tgggcctgct caggattttg acctctgaga taaaagctgg atttaaaaag 180
ccaatccaag ccaaacacct ggcattatta gcattgttat tccatcagat ctgtttgttc 240
tgataaagaa gctgggggtg gaatt 265

<210> 345
<211> 300
<212> DNA
<213> Homo sapiens

<400> 345
tgacatcaat gagttgaagt ctactcctct catggaggct gaagaaacat ttgctgagca 60
ataatagaac ctgccacaat tatgtttctg atggggtagg acgggtcctt gcaggagtag 120

agggtctgcc tggagggcat gggtaagaat catggctcat gatttgtgtg ggacaagtgg 180
tcgcagagca gaggctctgg gtaaggagac ctggtttgag tttataacca gagacaggca 240
gttcaccaac tgagtctcag tttccttatc tggaaaatgg gaataatttg tcttctctgg 300

<210> 346
<211> 300
<212> DNA
<213> Homo sapiens

<400> 346
gtaggacagc ctttggtgaa ggagacactt tggagagcat ggtgtgtgaa aacacttaaa 60
ggaaaattaa agggaattaa gaggaaattg aagggaagga gtatatgaga agggttgctt 120
tgtggttata agctgaattt tctttaatgt attttgaaag accccggtaa agaaaggaat 180
ttcttttaat tttgcagaga atgaggagtt gtccaattag gtgttgaatt gttcttcctt 240
ggaactctca agagaggagt tgtgtttaga gatagatttg ggagctgtaa gcaagtagat 300

<210> 347
<211> 300
<212> DNA
<213> Homo sapiens

<400> 347
ctttagcaag tcactcgagg tcatggaaca tgtttttgaa gaaataatat cagttcatga 60
attctgtacc tgtttcttgt cgctgaaggg gtaagtgaca tcagcagcat gttcattcct 120
tttcttgtct tctacctgtt ctccacaaaa gtataaaaag ccagaattgc tttttgggtt 180
ttgagatggc attgtcttcc atttgcaaaa aacagtttat aagacaaata ataaagaaat 240
tgaaatgttt ctgatggttt caaaaatgta aacataagcc agagtagtta tgtctcaaca 300

<210> 348
<211> 300
<212> DNA
<213> Homo sapiens

<400> 348
gtttaaagaa aacatacaag ggtatgacgg agatatgatt aggagaggga atgctttttg 60
agggcagaat tgccaatctg cttgtacttt ataagcctgt tgattgttta gatacggttt 120
agccagttta tagttaccct gggtgctgaa aggtatgctg gatgatacct aaccaacaga 180
gaaccattga atgccgttca aaatggactg aagcatcagc aatgtctgaa aaaggcctga 240
cagtaatgta catgtcaaat ggcccgtaat ttaagcagag tagagtaagt agaagaataa 300

<210> 349
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 349
ggtggatgtc agagttcggt ggcagctccc gtggggacct ggggtgtgtg gctgggtgaa 60
gacgatcacc tcccttctgt ggttttattc cccaggctga gtttgagccc ccaaggctcc 120
tgtcggttct ggtttgtgat tggctcctcc gtgccccatg cgcatgtcca gccgccaggg 180
agattaggcg tttgtagtaa gtgatttcac tggccctggg gggacagatg ggtagacagt 240
gtttgatccc angtctttgc agggctctag cccctcgcaa gcttctgcac cttctctgc 299

<210> 350
<211> 300
<212> DNA
<213> Homo sapiens

<400> 350
gtctcatgtt agttgtaccc acagctctca tcagaagcag acacagatac tttttgtagg 60
aaaacatctc taacttaagc ctgtaggatt cccaaagatt aaaagcaggc aaatatgaat 120
tcagtcaaat catagcattc aagtagtctc aacccaacat atttgagaat tgttagaaac 180
aatgaatatg tttcccaaag actaggtttt ggaattatca gatacagaac acagacttca 240
aatattagaa ttgtgagaaa atagttacat gtcaaaccta atataaaaga aagatggact 300

<210> 351
<211> 300
<212> DNA
<213> Homo sapiens

<400> 351
atgcttgtca gcattgccaa gtggcaaaaa atacagttat tgtagcaccg aaacagcacc 60
ttctcaaggt ggaaaatcca tggagtttag ttactgttga tctgatgggg ccttttcata 120
caagcaacag aagtcatgta tatgctataa tcatgacaga tttgttcacc aaatggattg 180
tgattttgcc tctatgtgat gtttcagcat cagaagtttc taaagctatt atcaatatat 240
ttttcttata tggacctcct cagaaaataa taatggacca aagagatgaa ttcattcaac 300

<210> 352
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 352
ctggacttgg gctttttctt ctatttgctg ggtagaaaag tccttaaagt ggatgctcat 60
gttcagtggc ctgggcatat attgtttcac tggtatcaat aatattttag gatataattt 120
tctagcagct aggttttaca tgtatataca ctatggttca gatataaatt acccatctct 180
ctatattagc ccagttagct agtacatgga taagtcatta gataatttgc tacccatgta 240
tntgtnctat taagangtac ntatanttna actaccaanc natntgtacn ntgcatttat 300

<210> 353
<211> 300
<212> DNA
<213> Homo sapiens

<400> 353
aaacaactga aggtcaaaaa cttatatgcc tttttatgtg tacatttaat aaaacaattt 60
tattgatttc ttaccgtaag ttactgtgat gagtgataaa tacttcacta ttcagatact 120
ttcgtaagag atacatttca gtggaacact ttgcataaat attttctcaa aaatgtgcca 180
tttctgggaa aaaagggaat gatgggaaag aatgttattg cagtttttcc tagaaatttt 240
gtcagattgg catgcatttt tattgactaa gaatcccaat tttagcatga agaccattag 300

<210> 354
<211> 300
<212> DNA

<213> Homo sapiens

<400> 354
gggaagttgt tgttcaaatc tgtagtgtgt ccagtcagca caaacgagga aatgatggca 60
gagttagttt aataaaacag agggaatcta cgttaggtat catgtatcgg agtgaactgc 120
tttcttttat caaaaaatta cgagaaccac tcgttttgac tattatttta tcactctttg 180
tgaaacttca caatgttcgg gaggacattg tgaatgatat tacagctgaa cacatttcta 240
tttggccatc ttccattccc aacctccagt ctgtggactt tgaagctgtg gcaatcacag 300

<210> 355
<211> 300
<212> DNA
<213> Homo sapiens

<400> 355
gggagaccta tacctagatg ttgctgaagc ttttctggat gttggtgaat ataattctgc 60
acttcccctc ctcagtgctc ttgtttgctc tgaaagatac aaccttgcag tagtttggct 120
tcgtcatgca gaatgtttaa aggccttagg ctatatggag cgagctgctg aaagctatgg 180
caaggtggtt gatctggccc cactccattt ggatgcaagg atttcacttt ctacccttca 240
gcagcagctg ggccagcctg agaaagctct ggaagctctg gaaccaatgt atgatccaga 300

<210> 356
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

<400> 356
ccaagctgaa ttccagattc tgaaagctga gctggaaaga accatagagg anaagcaaga 60
gttaaaagag aaactgaagg aaacagagac acacctggaa atgctgctga aggctcaggg 120
ctttggcaaa gcttacgcgg ctacgtatcc acgtcagcta tctccttact tctgtcctcc 180
ctcacttgga gcttcangag atcggctatg actcagaaca agtgnatggg atcctgtaca 240
cggngctgga ggcaaatnac atactgnatt gancaccaga ctgnataccc tt 292

<210> 357
<211> 300
<212> DNA
<213> Homo sapiens

<400> 357
gctaattgga aaatactgga agtcccttag gtattccact gcagtagtat cataagccta 60
gaaaatctgg aacaattctg tgagggttta gaaaaaggga cattgaattc agtctctagc 120
agtatggtag atgagactca atgaacaatc ttgtcacaaa ccaaggacat catctgaaaa 180
aatgttttaa gtcttttgaa atgatctgtc aagaaaacag ggaatcatca gacaccaaaa 240
ccaaagtgta agtagcagag gtcagtaagc actcaaggtg gccccaccct ggaggtttct 300

<210> 358
<211> 300
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 358
agcacaagag atgtaaaaaa aaaaaaaaac cccnccccncn gnggaangnc ccttttnagg 60
tttngnttng ttttttttn ggtttnnttt tntgtttttt taatnntggg gataacccnt 120
gatgncnggc tanngtncat atcnggtctt ttnagntagt gggctctttt aanannntntn 180
ngctnaaann ttaactnata aaaggttnga gccncgtnan catncgncna anggnaccca 240
ngcatagana aaagganatt cnnnccctgt gtatgaatga gcnggtcaga ttcaaggcag 300

<210> 359
<211> 300
<212> DNA
<213> Homo sapiens

<400> 359
agtttgtggc agctggagat cacctagtcc accactgtcc aacatggcaa tgggctacag 60
gggaagaatt gaaagtgaag gcatacctac caacaggcaa acaattttg gtaaccaaaa 120
atgtgccgtg ctataagcgg tgcaaacaga tggaatattc agatgaattg gaagctatca 180
ttgaagaaga tgatggtgat ggcggatggg tagatacata tcacaacaca ggtattacag 240
gaataacgga agccgttaaa gagatcacac tggaaaataa ggacaatata aggcttcaag 300

<210> 360
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 360
gttttctcgg cagatctgca aggctggctt taagagcaca aggagggaaa gtaacgaaag 60
ggctggacta ctataaaagt tacaaatacg tagttagacc aatagattta tatagtcagg 120
tttttgtcat gtaatttatt aactaactat tacagaaaca cagctaagaa tatcaagtat 180
ttctctggct cttgacagaa aaaaatcagt tgacttaacc ctttgctgca naanagttgn 240
cgtttctgcg ttggntgcta ctgctaactg 270

<210> 361
<211> 152
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(152)
<223> n = A,T,C or G

<400> 361
ggtgcgttag catctgaacc actgaaagtg agtgatggct tttatggtac tggagagacc 60
tttgttttta cattctgtcc ggagtttgag gtctttaagt ggacaggaga taatatgttt 120
tttatcaaag gagacatgga ttcactanct tt 152

<210> 362

<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(276)
<223> n = A,T,C or G

<400> 362
tcatggtgtc tgtaagtgat gacaaaagct ttaataactg gcacactagc ataatataga 60
aatcaatata tatcaatgta aaatataacc cccttttatt ctgtaaataa atacacacaa 120
gcacatgtat attatcactg tttatagcac aaattatcac tctaatttcc aattttttaa 180
ttgatttttg gacattctga agagtattct tgctactagc taaatgatct ccatttccgg 240
gccatggttt gacatangga aagncagcca aacctt 276

<210> 363
<211> 300
<212> DNA
<213> Homo sapiens

<400> 363
gtatgcccct tcagaacatg cagagtgtat cttttttaa atttctcctt ccgttgctta 60
agtattgcgc agatttgttc aactttgcaa atatggacat cacttttttt ttctttgaga 120
aaacacttgt atcagctttg tggtgttttc agggagaccg ctgatggcag tccgtgtaaa 180
aacccagcaa tgattatgca cgtggagaca tgtgcttttt atttcttagc aggatatttt 240
atctctgtac ataaagtaga aaccaaaggc tagggaaaca gatactcttt acaccatcat 300

<210> 364
<211> 300
<212> DNA
<213> Homo sapiens

<400> 364
gtgagccgag attgcgctag tgcactccag cctgggcaac agagcaagac tccatctcaa 60
ggaacgttaa aaaaaataaa aattaaaaaa aaagaatatt taggaaattg gatattttct 120
aggagaatta cagaagaaag gtagtaaaga atggcaaggt tatatttgtg aaagacttta 180
atgtctagag aagagttgac actagggatt tgggtaacca tcaatagttt ctaagtaagg 240
ataaaatttt atcactatta ttacaataag cacttactaa catgatggat attatgatac 300

<210> 365
<211> 300
<212> DNA
<213> Homo sapiens

<400> 365
gtcactttac tctccatccg gagccgcttc ctttctcgcc gcgaggctcg gggttggggg 60
gggaccagat tggagccgcg ggctaactgg gatccgtccc atttccctgg gcttgacgtt 120
ctctgaattt ttagctaatg tggaaagtta catttatttg catttgttta tcgcttgctc 180
acataggtct gtgtcccgaa gcttggcaga tgagcgaact tagccagcac acccccggcc 240
gtgaagcagg gaggtgaagc ggggagagca acgagcccca cccgggtctt gccagctgga 300

<210> 366
<211> 300
<212> DNA
<213> Homo sapiens

<400> 366
aacactttta gttgctctat tgattactta gatttttgtt ggcaattagg agcttttcag 60
taacattctt tgctccatcg gtagtctctg ctggctcttg ttcactcagg aaacacctga 120
gcacagggct tcaggaaagc cttctattaa atgggcagag gccccagcag gactcctgca 180
tgttcatctg cacagccaga gacagctgga gggcaggagg agccgcgttc acatagggtt 240
ctgcagcctt ggagccgccg tttcttccaa gtactcttca gatcagcggt tcttagccct 300

<210> 367
<211> 300
<212> DNA
<213> Homo sapiens

<400> 367
ccagcacctg ctgtgctggg aaggccgagg atgggggccc agcactgtcc aggcctgctg 60
gggcctggct gggagtcctg tgggcagcat ggaacatgca gctgggcttc ctgtgaccag 120
gcacccctctg gcactgttgc ttgccctgtg ccctggacct tttcctgccc ttctccttcc 180
tctgctccct tggggctacc ccttggcccc tcctggtctg tgcaaactcc ctcagggagc 240
ccccctgccc tgtagctctc acttaacttc ctaggggctg ctgagcccac ccagaggttg 300

<210> 368
<211> 300
<212> DNA
<213> Homo sapiens

<400> 368
gttcttttga acagtaacag tctaggatct tttttttct gagatgattt ttgaatgctt 60
ttgtgtggaa ccacatgcat cataatagat acaaatccat gaaagtataa cagttaaata 120
ctagatctta ctttttcagg ttttgatttc tcatctaaac tttccaatgc tttatcagtg 180
aagcaaacta actcacattg actagcctgc tctcctttag caaacccttc aaataaatgc 240
ctcatttgct cctcaccact atcattttag attggccaga cagttgttac ttacctttta 300

<210> 369
<211> 300
<212> DNA
<213> Homo sapiens

<400> 369
ccaaagcaca caaatggcct accatctttt attcttcctt ctagcttctg gagagagaaa 60
tgattgttcc agtttagaat gccaggagtt tactgggtgt ttgtattttt tatctgtgcc 120
ttaaaaaaat tagattataa tgaacaagac atctttatgt tttacaggga aggaaaaagc 180
agtgaaagta tgcatttcg aaagaaaagt gtgttgggaa aagagagaga gggtggaaac 240
ccaaaggaga aataaaaatt ttaagtcctt gttgcagtag ctggaggaag tgagcttgga 300

<210> 370
<211> 300
<212> DNA
<213> Homo sapiens

<400> 370
agagtaaaaa tagaaatgtt ctttttccca gaaaaaaaat cagtaagctg gtacagataa 60
ccataccaca ttgcctgttt ttccaaaaaa ttacatttgg gtgatatcaa atgcaaattt 120
ttgaactgca ttgacagaag tcaggcatgt ttagagagtt agtaaacttt ttcagaccac 180
agatcagcat taagtgaaat actgcttcag ccactgatac cttcatggca gataagtatt 240
atactgactt ctttttagag acacttctgt tcacacacaa gacacagaat ttgttgaata 300

<210> 371

<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 371
cgccatgttg cccaggctgg tctctcctga gctcaggcaa tcggccacct tggcctctga 60
aagtgctaga attacgggca tgagccaccg catccagcca gaaagataca tatctaattc 120
tagaaatagc atgcagtatc agtcatagta acagccatgt gctgcctaaa ataaaatttc 180
ttgaaatggg gaattaaccc tggagtattg agctagtttt tttggtttgg tttttttgggg 240
ctgaacattt gggcctaatc ctttgnntnn tnaaaccntt taaaaaannn aaggtttggt 300

<210> 372
<211> 300
<212> DNA
<213> Homo sapiens

<400> 372
tttagatgaa gtgctgagaa tatttagaaa aagcgcttta aaaagcatct agagattatc 60
atgaaaataa ttggagacaa agtcactagg ctgctttgtg agaggcagca taccatggct 120
ctaaacccgt tcacaaaaaa caatgttaga gacattagga attcaggttt tgaaaatctt 180
tttttcgatt tatttgtaat ttacatacca aaaaaccaca ttaaaatagt cctccccttca 240
acatggctat ctttttttcaa gttttatatg catagctctc tcagcacttg aatggaaaaa 300

<210> 373
<211> 300
<212> DNA
<213> Homo sapiens

<400> 373
ctgaaatgct gacaagatgt ggcattggta agttgctact ctttgattat gacaaggtgg 60
aactagccaa tatgaataga cttttcttcc aacctcatca agcaggatta agtaaagttc 120
aagcagcaga acatactctg aggaacatta atcctgatgt tctttttgaa gtacacaact 180
ataatataac cacagtggaa aactttcaac atttcatgga tagaataagt aatggtgggt 240
tagaagaagg aaaacctgtt gatctagttc ttagctgtgt ggacaatttt gaagctcgaa 300

<210> 374
<211> 296
<212> DNA
<213> Homo sapiens

<400> 374
cttgtgtttt cttaactccc ccagtaatag acctaactga ttttgttttg agaagttcgg 60
tattagctta agtttttgtt cgtttataga atatcaaaat ggtatcaaaa ctgtttaaaa 120
ggtcaatgta catctgtagc agagcttttt actcttttcc ttgtcttctt tctctttgtg 180
tatatacatt gtttatagtt gtattcagta tacatgaaat tttgtgtctt ttttactcct 240
ctctgtataa actttctgtg ctgcaacaat gtaaattaca ttcaggttgt ttccag 296

<210> 375
<211> 287
<212> DNA
<213> Homo sapiens

<400> 375
ggtaaaaggt ggagaccatc attgtggaat cttgtatttt ctattaaggt ttgtaatagt 60
cctacaaact tgaacataaa tttttaatat ttgggaagga acattcactg aagaattgat 120
aatagactaa aaaataacct gttatcaatt aatacatgat ctgtccttga acacatattc 180
accattatgt aaacctcaca ttatttcagc ttatttattc cacagatacc aatagacatg 240
ttttcacatt gtagcatctc ccaaatcaaa atacttctaa aaattgg 287

<210> 376
<211> 300
<212> DNA
<213> Homo sapiens

<400> 376
gactatgcag gtctatgggg aaacctttag tctgctttaa gaaaactcag tatctgaaaa 60
tcttaactta gcatgtgata ctgtcttatc agcatctgca gaagtgccaa agccactgct 120
agacacttaa tgtgtattat ttcatttaat tatattttaa atgtgcttcc ttggtaattc 180
ttaagctcga gaaagagttt gagaactgct gctaggaaat agagattcac atttaaccct 240
gtggtacttt taagaagcag gtacgttgtt gcatatatac ttgggtagag attggtaact 300

<210> 377
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 377
ataacatttt tgcaagtctg aaattatttc aaaatcaaaa gagactatca aattacagga 60
ttaaataana ttggattntt cccatancaa tttaatgcca tttaaaaaca atgttacatg 120
attacttatt aaaagaatgt gctngccgct tttctgctgt ctggctgact tggaggcctg 180
agattanatg gtacccttgt gttctttngg tggtggttat aancanggat cctcancatt 240
tctcttttt gnatcttgcn attccgnctt caagctattc cccacctgca ccctcccctt 300

<210> 378
<211> 300
<212> DNA
<213> Homo sapiens

<400> 378
ctcctgccct gcttaacccc tctctgtgcc tccccagtgt ccctataaca aagcccacac 60
tccttggccc ttgctaaacc ttccgtaccc ctctcaaacc tctgggaccc cttccctggc 120
catagccttg ccctgtgttg ctcccttggc tgggaatact cttcctcctg ctccattttg 180
ccaggccagt tcctacccat tctcatggca aacatccctt cccaaaagac ccaacgccct 240
ctccaggcca ggtcatcccc cagcctcctt cctatgccct ctcaggactc tatagttctt 300

<210> 379
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(258)

<223> n = A,T,C or G

<400> 379
gggagctgca ccacaaacgt ctagctctca gcagagctgg gagcaaagcc tggccgccca 60
ccccaacctg ggctgcctc ccactccgtg agatgcttct gtctcctgtt cactttgtgt 120
ggtagtttct tatttnccaa tgcatctnat tngatcatta ctgngacctt ggaaatcnct 180
atgntanggn nancnntnna gnngncntat attntaaaan cttttgnatn ttaagnctcn 240
tantttngtn ntctggnt 258

<210> 380
<211> 248
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(248)
<223> n = A,T,C or G

<400> 380
cccaggcctc cccgaaacca aaggggaagg caggggtggg gccgtggctg aagccggctc 60
cccaaccaaa atgctgcacc aaagctcggg cgccgcgggc acggctgctg cagtctcttc 120
ccagcctggc cctggcaagg ggcgggtggg cgctgccagg cgggtgcttc tcgacgcact 180
tgctcccgga ggctgcgccc cggcgcctgg aacccgangt gggaagaacn gntngnnnna 240
nccttgtt 248

<210> 381
<211> 300
<212> DNA
<213> Homo sapiens

<400> 381
tcaccaacca gatgagcatc gggcgcggga agctgccagc cgaggagttc aaggccaagg 60
tggaggctgt ggtggagaag ctgggggtcc ccttccaggt gctggtggcc acgcacgcag 120
gcttgtaccg gaagccggtg acgggcatgt gggaccatct gcaggagcag gccaacgacg 180
gcacgcccat atccatcggg gacagcatct ttgtgggaga cgcagccgga cgcccggcca 240
actgggcccc ggggcggaag aagaaagact tctcctgcgc cgatcgcctg tttgccctca 300

<210> 382
<211> 300
<212> DNA
<213> Homo sapiens

<400> 382
cattgttgta tcagtgggtg ttgatgaaga aattgtttat gccaaatcaa ctgccttaca 60
gacatggctc tttggttatg aactaactga tactatcatg gtcttttgtg atgacaaaat 120
catctttatg gccagcaaga aaaaagtgga gttcttgaaa cagattgcca acactaaggg 180
caatgagaat gctaatggag cccctgccat cacactgcta atacgagaaa agaatgaaag 240
taataagagt agctttgaca aaatgattga agccattaaa gaaagcaaga atggcaagaa 300

<210> 383
<211> 279
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(279)
<223> n = A,T,C or G

<400> 383
ctgaagggaa cccacccacg ctccttcctt cccaagagac tgagcgggcc atggagatcc 60
tcaaagtgct cttcaacatc accctggact ccatcaaggg ggaggtgtng gaggttnttt 120
atgttatttt ttnagntngt ttntttnttt ttgngttntg tttttttttt tttttttttt 180
ttnatnttct tntttntttt nttntttntt tttatnntnt ttttnnntct tnttttttnnt 240
ttnntttntt nngtnttttt tttatttntt tnttttttt 279

<210> 384
<211> 300
<212> DNA
<213> Homo sapiens

<400> 384
ggaagacata acagtgttgg tgactccaga gaaaccactt cgacggggcc tctcccaccg 60
aagtgaccca aatgcagtgg cacctgcccc ccagggtgtg aggctcagcc taggccccct 120
cagtccagag aagctggagg agatcctcga tgaggccaac cggctggccg ctcagctgga 180
gcagtgtgcc ctgcaggatc gggagagcgc aggcgagggc ctggggcctc gccgagtgaa 240
gcccagtcct cggcgggaga cctttgtgct gaaggatagt cctgtccgag acctgctgcc 300

<210> 385
<211> 300
<212> DNA
<213> Homo sapiens

<400> 385
actgggtttt tgttctgtgc ctccagtatg tgcataggaa atgtgtcttt gaatgatggg 60
gaagctgtgg aaacgcacta ccaaaaggag gtttcatacc ctgttcacct aattgtgtca 120
cagaaatcag aaaaggaaaa tctgtgtcag tgaatttcac tgtatcgtca accctccaga 180
ttgggggatc tgtggagtca accaaccttg gatcaaaaat atttggaaaa aaaatttgca 240
ttcatactga acatgtacag actttctttt cttgtcactg ttccataaaa caatacagtg 300

<210> 386
<211> 300
<212> DNA
<213> Homo sapiens

<400> 386
gggaaaataa cccagttttg atcttttta gtctgggtgc ttactggatg tcaaggtaga 60
aagtgtccaa caaggtgctt taactatagg ttgagttctc aaaaaggtta agagggtaga 120
gttatagtga catcttcagc atatatagta gttgaggcca gtggaaaatt tcccattgag 180
agctctgaga ggaaagtatt ttagaagcca agggaaaaag gagtattgag aaagcgttag 240
atatcacaga aaaattagat tggtgatttc taagacaagg atataaccgt taggatgtca 300

<210> 387
<211> 300
<212> DNA
<213> Homo sapiens

<400> 387
caaaaataat agaaaaaaaa acagaatttc cacaaacccc cacctaattt atctgcctcc 60
tgccatcagt gccaatatac tgtgcttttc ttctgtggat acattattta ggccactatt 120
cagggccaac ccctccacct gcctactaga ggccatcacc acttgtttat tcaagggcac 180

agctccaggt agttttcctt ctcttgggga tcatcagttt ccttctgtct accaggtcat 240
tcccattagc atgtttttgc cgcttttctt aagagataat atctcaaccc taattcctcc 300

<210> 388
<211> 300
<212> DNA
<213> Homo sapiens

<400> 388
ggattatctt gatgatggtg actcattatc agtgctttgg tacttttgat tacctgtgtt 60
tcagtattag tgtcacttta gtacttcaga tcctgcaaat atttttgcag atgaagtatg 120
tatgtatgtt actaagttaa acttagaaac agaacctcat tcagttttta taatgtattt 180
ttgcaaacta ctgtaaatag caaatcaatg ccaatgttaa acaaagagga aaacgttgtg 240
tggactttgt tctcttgcac cggtatttca ggaacatctg cttgccatcc ccacagctct 300

<210> 389
<211> 300
<212> DNA
<213> Homo sapiens

<400> 389
tttttatttt gaaatacttg gctgacttac aaaagacttc ccctcacact tgacatgatt 60
gacaaaagct gtttgcagtg tttcctgcac gatgaacacc aggaacctgg gaagtgagaa 120
gaaccctggg atgaagtcat cctgctggaa tgacctggct ttcaggctga ctgccacccg 180
ccccatgggg aacctatctc cactgctatg gccagctatt tttttcgagc caggctctcg 240
ctctgttgcc aggctggagt gcagtggtgc aatcactgca ctgatcctcc cacctcagcc 300

<210> 390
<211> 300
<212> DNA
<213> Homo sapiens

<400> 390
atccctacct agaagagaat agatgggaag agaactgaaa gaaagaattc ctcaagcact 60
gaagtcagga aaatccccgt aggcactgta ttagttgttc catttatccc agcactccac 120
ttgtggatga aggagttgta tagaaaggag atgagaaaat ggcaggagtg gaagcagcca 180
agaagagatc gatgactgaa gatctccttc accttcagga ctgtctcaag ggttatttc 240
acctctactc atgaggatgg ccagtttttc tgtcttttat ctttagaccc atatataatc 300

<210> 391
<211> 300
<212> DNA
<213> Homo sapiens

<400> 391
aatcagtcag atatgcctag atgaagaaac aaaatggcaa tctgagtaga agaaataagg 60
agaaaggagg agaggtgtga aaaaaagtcc tttttctgag aacaagcatt caaacagata 120
aaacacaggt ttcataaaga aaagttaaat gtcccactac tatgagtcaa aatggtgcat 180
ttgctttttc ctgggttttg atttattgcc ctctgtttgt accccacatt cgcatccttg 240
gcacagactg tcatatgtca cacattcagc ctcctacact tccaccccac aatctcttta 300

<210> 392
<211> 300
<212> DNA
<213> Homo sapiens

<400> 392
tcactgttgc agccttttttg aaggggacac agtctaggag ggggataaat gggatgccct 60
tgccccagag agaacccagt tctaggtact gtctgggcct gggaggcgag agcagtgccc 120
aggggacttc tgggcttaca ggacagcgtg tgtgacaaaa ttcagatcta cctgaacttg 180
cctctggaga tgataagggc caaaggagca gtcagggagg ggcggtgagc cagagtagtc 240
ccagggggag acagattcct ccctcctccc cgcctgcagc tctctttaat tttttgtaac 300

<210> 393
<211> 300
<212> DNA
<213> Homo sapiens

<400> 393
tcactgttgc agccttttttg aaggggacac agtctatgag ggggataaat gggatgccct 60
tgccccagag agaacccagt tctaggtact gtctgggcct gggaggcgag agcagtgccc 120
aggggacttc tgggcttaca ggacagcgtg tgtgacaaaa ttcagatcta cctgaacttg 180
cctctggaga tgataagggc caaaggagca gtcagggagg ggcggtgagc cagagtagtc 240
ccagggggag acagattcct ccctcctccc cgcctgcagc tctctttaat tttttgtaac 300

<210> 394
<211> 284
<212> DNA
<213> Homo sapiens

<400> 394
ggctggtgga agaaaggggc attccagact agagggagca gtaattgaag agtcctgaga 60
gaaatgtagg agagagagag actaaagggt aaactggggt caaatctgat gaagggcctt 120
tattggggat ttaggcatat ctaagagtag ataaccatgc ttagtcttgt ccattagaaa 180
cagtacaact tagctctgta actgagtagt tgtggttatc aggctgttcc aaaacagtga 240
gatgcacttt gataagctat gatgcctatt ttttcacata tagg 284

<210> 395
<211> 300
<212> DNA
<213> Homo sapiens

<400> 395
aatgcggccc gagagagaag gaacacactt atgggcttgt cctgaaatga aagggaatga 60
ggaaaactgg gtagagggca aggatgctcc agcctggtgg ctctgctctc caagaggaag 120
gaatagagct ttagaagtgt ggatggccag agttcagggc agcctggctc ccaagcctac 180
ctaaaacaac catcccattc ctagacccgt ggattgagga ctgggcagag atgaatcatc 240
cattccaggg aagccatagg cagaccccag acttcgggga gcacctggcc ttgctcccac 300

<210> 396
<211> 299
<212> DNA
<213> Homo sapiens

<400> 396
gcactgtcat gtctctagct gggaaataca cattgaacaa ctggttggca acggtaactg 60
ttgggccagg cgggcatgca cgcaacatac taccacaaag ccagtgacca gctgcaggtg 120
ggtgtggagt ttgaggccag cacaaggatg caggacacca gcgtttcctt cgggtaccag 180
ctggacctgc ccaaggccaa cctcctcttc aaaggctctg tggatagcaa ctggatcgtg 240
ggtgccaccc tggagaagat gctcccaccc ctgcccctga cactggccct tggggcctt 299

<210> 397

<211> 300
<212> DNA
<213> Homo sapiens

<400> 397
ggtaaatcag tttggaattt gttttcatgt actcttaagt tactcaattt tagtgtcatg 60
gagttccaaa ctgttgtttt acagtgatag ttattaatcg tatttgtaga aagccaaagc 120
ctttattaat acagatggtg gagattaaaa tgaaacctgt tactgattat ttagaagtta 180
ctccctttta tattttaatt taggaatcat ttctgtagtt gttaattata aattataatt 240
acttttgcat tttatttaca gaaaacctgg gagctttcct tccaagtgtt ttctttaatt 300

<210> 398
<211> 300
<212> DNA
<213> Homo sapiens

<400> 398
ttgcagtcat gtttctgaga agtcttttgt cctctgagca gtggaaactc cctgttgaac 60
tgattttgta tacctgtgta ataggatgtc ttgtatttct ggtttcgtta tttgcctttt 120
cttacttaca gctatgggaa aattccaaaa atcaaatatt ttacaagatc agtgattact 180
cagtagaaga tacattttta aatcatgttt aatacctaag ccaatgaaat gagcattata 240
tagttagagt aagctttttt taatggttag tatttaacta tagtatttga ctaactttaa 300

<210> 399
<211> 300
<212> DNA
<213> Homo sapiens

<400> 399
ctcccctaat ccatccccac ctgttagaat tctatttatc tttccagtct tagttcaaat 60
accacttgtt tctatgaaac tttcttaact ttccaacaca aattcacctc ttcatttctc 120
tattccctta gcagtttgct cataacttta ttatataatg attgcactcc aacttggatc 180
ttagctaatt acgtacctgc attccacact agactgcaaa cttgaggaag atgggtgctg 240
tggctgccct caaaccgtat gtgcctccca taggacacaa gagttggtta tgcaggtgtt 300

<210> 400
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 400
atttttatgt gtttattctt attttataga attcttagtt gctggaagcc ctcaaaactt 60
agtcatatta ccattgggta tttattgttc cctttcaagt gagggacgag cataatcaaa 120
tctgcattgt acatgaccag gatttttttt taaaaaaaca gtactgccct ggtggatcta 180
gtttattatt gagtgtatag cagaaaggta aatagtttgc catgttggtg catnaaattg 240
nnnngnncnc ctactnattc tatc 264

<210> 401
<211> 300
<212> DNA
<213> Homo sapiens

<400> 401
gtaaaggaaa gcactaagcc atttctctg ccctctagaa gcttataatg tacagtccta 60
tcacaaagca gaataaaaac atgaaaccta taaatgggaa tgccataaag tatttttatc 120
tctacaggtt cattcatgca gagggcattt attgggtgac tgcagtactg caaaaggttg 180
caaaggaaat ggaagatctg gtccctgtag gttgggagtt tacaatctaa ttagaaatac 240
aaggcatata tacgtgaaaa aactagaatc cccagctgta agcaaaagga tggagtaggt 300

<210> 402
<211> 300
<212> DNA
<213> Homo sapiens

<400> 402
ctcattcgaa aacacccaca acataacata aagattggac tctacagcct gggaaaggaa 60
tcactgctgg agcagctggc cctggagttt cagacctggg tggtattgag tcctcggcgc 120
ctggagttgg tacagctact gggcctggca gatgtgttca cagtggagga gaaggctggc 180
cgcatccatg cagtagacca tatggagatc tgccattcca acatgctgcg ttggaaccag 240
acccacccta cgattgctat ccttcccaca agccgaaaaa tccacagctc ccaccctgat 300

<210> 403
<211> 300
<212> DNA
<213> Homo sapiens

<400> 403
gtttagaaac tgattctaga catttaagtt cccagactaa tgtcacagaa gctaatgaat 60
tgcagaggtt aattggaagc ctggtcttaa cactcccagg ttatcttaat gagttcatga 120
ggatggcata tggataatgc acttcaaagg gtgttgtaag tattaactaa gttaatacag 180
gtcaaatgca tatattagca ctcaatgcac ggccattgat caataaatgc tagtggttct 240
gatcagtgag aatctaacct ctgcttaaat acctttagtc atcagcagct tccactccct 300

<210> 404
<211> 300
<212> DNA
<213> Homo sapiens

<400> 404
aaaagtctcc cacctttttct cctaaaactt ctctcctttc tctccataaa aagaaaagga 60
aaggaacaaa agaaaaacat tcagtttttc tttttctgaa aaaggtaagt cctttcctga 120
agtcatcaaa tgaaacatta tctggaaatt agtttctaat gttgtatatg aagaaatact 180
taaatataag ttcctgcagt atttattaga tagttgtaac tgtaaactca cctccctagt 240
agataagagt ttcaggttaa atactggaac atatataggc agtcaaaaat actactttaa 300

<210> 405
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 405
aaaaaataaa agtaaattct aggcaagcta aagagtgaaa tgtatcatca cataggagga 60
agtgggggaa aaaagtgaaa tgtaagaaat gaaatgataa gaagaactta gtgggtattc 120

gtttgatttt ggaggcactc taggaaaatt ctgccagatt gtactacatt taaaaaaaat 180
ttttttaac ttttgtgtgc ttcagtttgg ncatagacna atgaaaaggc acatcacana 240
ctaanangaa aatcagntcc tatatatgat aacgggttaa tatngttnta tatgg 295

<210> 406
<211> 165
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(165)
<223> n = A,T,C or G

<400> 406
atgcgcttat taggtatttt atctttcaaa aatatatgta cccaactgtg tttgtttgtt 60
tcctgactgt gaacactgaa gaggactaga tcaaaaatga ccaattgagt agcaattgaa 120
catttacagt gctgngtgca gtgaacttct gtagcaccca aattg 165

<210> 407
<211> 300
<212> DNA
<213> Homo sapiens

<400> 407
gctgagatca cataagtaca gaatcatgac cttaatggtt tgacagtttg gaagcaccct 60
ggcaacaagc catttcagtg gaatggtaga aatggaaacc acgctgggtt gagaagtgag 120
tggatgtgaa aatatggggc ctctgaatgg aggtaaccct tgaaaaattc cactgtggag 180
aagaaaggag agagagaggg ctggaatttg gaatgaaagg agatatttgg gattatttta 240
gtaagaaaac agaggtgtca tgacctcagt gtaaccctat tagctgcaaa aaattcttca 300

<210> 408
<211> 300
<212> DNA
<213> Homo sapiens

<400> 408
gggagcctgt cactgcttga gacagagggc aaggaccacg gccttgaact cagcatccac 60
aggacgccca tcttggagga ttttgagctc gagggagtgt gccagctccc agaccagtcg 120
cctcccagga acagcatgcc taaggccgag gaagcctctt cctggggaca gtttgggttg 180
agttccagga agagagtcct gttggccaag gaagaagctg accgtggagc caaaaggatc 240
tgtgacctga gagaagattc agaagttagt aagagtaaag aggggtctcc aagttggagt 300

<210> 409
<211> 300
<212> DNA
<213> Homo sapiens

<400> 409
cttgtttctc tgaggaagct gaattaatgg aaagtttctc ttaaaactta gaatatattg 60
tttggcaatt tctgctgtgg gcctaatatt gcagaatcaa agttggagct acatcatgta 120
gcacttgcct caataagatt gccttagtga cacaatgcaa aaggttacag acttttcttc 180
aagttaccat ttcccacaag ggcctgtgat gaaagaagaa aagagaagca agaaaagaaa 240
taagctagat acttccccag cacttggacc ttcaaaattt gtacgataca gggagacact 300

<210> 410

<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 410
gctatccctc ctcctgttcc accctccaga ggtagtctct gttacccttt tatttataac 60
ttttatggtt tttttttctg tatttataca aatcgatgca caaagagggt tctcttctct 120
cataaaagtg attattagtc ttcagtgtgc cttttttttct cctaacaaat gtaaactggg 180
agcatttttcc caagtacata tttataatac ttacggtgcc tatctagtat tctgtgaata 240
tatactgtta attnattcct tcccattgnc ngacttacct tgnttccatg tattgccatt 300

<210> 411
<211> 300
<212> DNA
<213> Homo sapiens

<400> 411
gtttagtgtt cctccactgc tagaaatttt ggttgttcct gatttttatt ttccctttta 60
taaatgtctc tttggtgaac gttattagac ttacagtata atccagttga tacataagcg 120
aatgaagaca gtaaccctca aacagatgtg tgtgtggcat gtacattaac tgctatcctt 180
tcagcacttt gttttgttga aatggccatt tccattatgt tcaggaaaac tcattttggg 240
aagaataagc aataaatttg taattaatga aatctggttc agtttttcag tttgtccagg 300

<210> 412
<211> 300
<212> DNA
<213> Homo sapiens

<400> 412
gacagaatgt gcaaattaag tttgaattaa tgtaactaca gaattagata aaatcttacc 60
tgagtactga ggattttgtg aaatgttaga acctggtgta ttgggcatta tgaacattaa 120
cccagggaag cagttaggtt tgaaggaagg tatgggcagg agcttgacag atgctggcaa 180
cacatattat tagatgtttc tgtgccattt ttatagtcaa agtgtgttca tgggaaaact 240
aaagaatttg ggacagttga caaaattaag tcgtatttta gtaaattaat taaaaagttt 300

<210> 413
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)
<223> n = A,T,C or G

<400> 413
gctatccctc ctcctgttcc accctccaga ggtagtctct gttacccttt tatttataac 60
ttttatggtt tttttttctg tatttataca aatcgatgca caaagagggt tctcttctct 120
cataaaagtg attattagtc ttcagtgtgc cttttttttct cctaacaaat gtaaactggg 180
agcatttttc caagtacata tttataatac ttacggggcc tatctagtat tctgcgaaca 240
tatactgtna nntnatncnt nnggattgac agacttacct ngngtccatg 290

<210> 414
<211> 300
<212> DNA
<213> Homo sapiens

<400> 414
gtacagcttc atcactggtc cagctgtaat accagggtac ttctccgttg atgtgaataa 60
tgtggtactc attttaaatg gaagagaaaa agcaaagatc ttttatgcca cccagtggtt 120
actttatgca caaaatttag tgcaaattca aaaactccag catcttgctg ttgttttgct 180
cggaaatgaa cattgtgata atgagtggat aaacccattc ctcaaaagaa atggaggctt 240
cgtggagctg cttttcataa tatatgacag cccctggatt aatgacgtgg atgtttttca 300

<210> 415
<211> 300
<212> DNA
<213> Homo sapiens

<400> 415
gttctattca tgtttcatgg atgtagtatc ttcttttgtc tttattaaga tactaatggc 60
gttttaaaca gtttttgtct cctttcatag tttctgactt ctcaatgttg cattatttta 120
aaaaaaatgt ttaaaaaggt tttggcctcc atctttccta gatgctctcc tgaaatgtct 180
gacccttgat tattgctcat gtttaagggt agggaactaa aattatgaaa cttctaagtg 240
tggggattgg gttttaccag ctatgagcgt cagtgtatag caatctggct gtactgttgt 300

<210> 416
<211> 300
<212> DNA
<213> Homo sapiens

<400> 416
ggaaagggcc gtatttgagg tcgtagggat tcacagtaca gctgcagaac aggactcctc 60
ccctggtccg ggctgcgac tgtgtcacat ggacaggctc actggttatg tgctccacca 120
agttatatgc acaaacgttt tgacactaca gtcccgcctc tggaaataac cttccctatg 180
ctcgcacaag attcaaagat gggcatttac catagcacca tctaatagca aaaacaacaa 240
aaaacacccc aaacccaaat cctgaatatt cgtgaagaga ggaatggtgt taggaagtat 300

<210> 417
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 417
agatctagag ctttggatct ttcgggtata tgtcaatgga ggtattattc tatagggnct 60
ttncattnaa atgacttgnn tncntnctnc ttncncnaaa ctcgncggct nccancgntn 120
ctnccnntcc cccgctcncc tgcctgcnnc ccnaccatan cctctnncac cnnncacntg 180
nccnacccnc gncccantcg cnccncangc ccccctccac cntccccacc cncccctcct 240
ncctcccccn annnanntcn cncatcntnn antcnnccan cncttccacc tctgctc 297

<210> 418
<211> 300
<212> DNA

<213> Homo sapiens

<400> 418
aaggcacaga ggtggccacc aacctggtga ttctctgcac cggcatcaag atcaacagct 60
ccgcctaccg caaagcgttt gagagcagac tagccagcag tggtgctctg agagtgaacg 120
agcacctcca ggtggagggc cacagcaacg tctacgccat tggtgactgt gccgacgtga 180
ggacgcccaa gatggcctat cttgccggcc tccacgccaa catcgccgtg gccaacatcg 240
tcaactctgt gaagcagcgg cctctccagg cctacaagcc gggtgcactg acgttcctcc 300

<210> 419
<211> 300
<212> DNA
<213> Homo sapiens

<400> 419
ttttacgatt ctaaaatcct aacagatttt aacagttgct taaatattat ttcttggcat 60
atatagcttt ttaaggctgt gggtcaaaga tagatgtact catttgagac ttagtgattt 120
gttttataag tatgttgaat aagttgagcc agtttgaatt gtgtccttct cttttaaaga 180
aaagatttcc caaatttaaa cctggattta gatgtttttt gggttaaccc tactgaactt 240
tccaaaattt tcaggcttct gggcctaact caaactgtaa tttcatgagg ccggccaagt 300

<210> 420
<211> 300
<212> DNA
<213> Homo sapiens

<400> 420
attacacttg aatatttaaa aacaaaactt ttaaacttcc tataggttta tgatgtttgt 60
tttcatttat atggacataa tccttcatag ctcagtttat atgccattgt tgtattagaa 120
gggatcaaaa tcctatggaa caaagtagtc ttggcaagtt ggcagtttgt gtcctctcag 180
ctgtttaact tatgtaatgg atgttttgca cctgaaaaca ctataaaaat ccagtggttg 240
tttaaaaagt ccatttgtca ctaattccat tcaggttctc caaccttctt cttgaatatc 300

<210> 421
<211> 300
<212> DNA
<213> Homo sapiens

<400> 421
agatagtctc tgaatttaga actgggacga aagtgtacat aataggctat tataaaattt 60
ttagaattgg atttctaaac ttggggtcag tgaatctagc aggcttaagc agtgttctca 120
ggtttttctg gcacagacaa ggaatataag aggaggagag aaaaggagag acagtagtgg 180
gagggaatag aatgagagaa gatagaaaat atggaattaa tagagaaagg atacatgaag 240
tattacaaga ttttcttgga aaaattggca tttcagtgat ggatcaaaga tgtctaatga 300

<210> 422
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 422

gcccagtacc ctcccacctt tgaccggtac caagggaaga acacctacct ggagaagatt 60
gacggcttcc gagcctatta caagcagtgg ctgacagtga tgcccgcaga ggaaaccccg 120
cacccctggc agaagttccg gaccaagccc caggggacc aggacaccgg caaggaggct 180
gatgacggat gtgcccttgg gggcaaggtg atgggagcac agcttggaac aatgtgctcg 240
gccccagtgc tttgtggaan cccnaggnca nttacnttgg ggtnacctct ggcctggggg 300

<210> 423
<211> 300
<212> DNA
<213> Homo sapiens

<400> 423
gctaattcag catcttcagt agcttctaaa aaataagcat catcaatgcc attatcccag 60
acagcatcag cagatgcacc tgttgacagc ctgctaggtg atggtttatg aggattctgg 120
gtttcattgc tcctagtttc atctgcttca tctgttgtaa actcttcttc ctttatttca 180
gtggtgaagg gatagagagt gggataggaa aatatttact caggatatgt gatttaacct 240
tatactctat gttgaagtaa ggtattaagt gacagatact aaagtgaata tgcaggagga 300

<210> 424
<211> 300
<212> DNA
<213> Homo sapiens

<400> 424
cttttccctc ccaaagttct gggattacag atgtgagcca ctgtgcctgg ccttattcag 60
atcttgaaaa ttccttttgc cgtataaggc aacatattca caggttccag gattaggcca 120
tggacaattt tggggaggta attattctgc ccactacacc ttgggaggca ttcatttgct 180
cacctttact ttctttcctc tccctgtctg tactgatacc atggatagtc tatcttctct 240
tcacttcctt ctccaggaat ttcatttatt ctcatacatt tgatatttaa tgaggatgac 300

<210> 425
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

<400> 425
ggggagccag agaagagctg tgagcaggga agggataggg tcaactctag tgacatcaca 60
ctgatggaca ggagataaga ggccagggag gaggctgggc ggagagtcca gagcggaaag 120
tgagtgccca gctctcactt ccttatgtct ctctctgctt cttacggccg ctgtccctga 180
atgtttcttc cctgtctggg tctgggctgt gggcttcctg cagagggctg gggggttttc 240
accccttttt tntnccnta 259

<210> 426
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 426
gacagaattc acattgggat ccagtctttt cctcttatga atgggtctac cgccaggtga 60
cgctcaattg cacgaagctt acccttattc atatgaggan ncnaccnaan ncacattngc 120
attnatgtnc ctntnngatn aagagcgcnt gcnnancctt ccctntntgc ccngcagacc 180
cncactnntn cccacttcca tgcccnnnnt nccatnangc tnacntttnc gctncntctg 240
acggtcncnt ttgccctctg tcccnanaca nncagcnggn tncaccanca ggaagctttt 300

<210> 427
<211> 300
<212> DNA
<213> Homo sapiens

<400> 427
tgtttttgtt tgggaggtat ttctgaactt aaaaaggaaa attgcaaacc attataggga 60
ctagtttgcc tttggaggaa aaggaaaatt gcaaacccctt ataaagacca atttgccttt 120
ggaggagaaa gccaatttat catccaaaat cctcagaatt ctcaaataca aaaagttctg 180
aaaactgaaa gtttcttctt aagtttggtg gcaaaagtta tttatagtct tgacttatcc 240
catttgatgt gaatctgctt acatttcatt gcacaaaatg tttctgtgat tgtgaaatac 300

<210> 428
<211> 300
<212> DNA
<213> Homo sapiens

<400> 428
gcacacacac gcacacattc cgaagttgac agactaacat acacacagac atgatgacaa 60
ccaaaagctg ggactccaca cactgaatgc aggactttag gcggggggca gagagagaag 120
gtgctggggc acaagaggca agggtatgaa gtccctccaa ataggagtgg agtgccaact 180
gccctgcctc gctccaaaca cctgactcct gggccatggc aagagtccag tccattaagt 240
gcagcgtgca atactagcgc ttggagtctc ctgtcctcat caatgaagcg gtgtggacgg 300

<210> 429
<211> 300
<212> DNA
<213> Homo sapiens

<400> 429
agatcactca aaatttgcat gtgaagaata taagcagagc atcggtagca ctagttcagc 60
ttctgttaat cattttgatg atttatatca acctattggg agttcaggta ttgcttcatc 120
tcttcagagt cttccaccag gaataaaggt ggacagtcta actctcttga aatgcggaga 180
gaacacatct ccagttctgg atgcagtgct aaagagtaaa aaaagttcag agtttttaaa 240
gcatgcaggg aaagaaacaa tagtagaagt aggtagtgac cttcctgatt caggaaaggg 300

<210> 430
<211> 300
<212> DNA
<213> Homo sapiens

<400> 430
ccacgatgag gaggaggatg agtatgaagc agaggatgat gaagaggaag aagatgaagg 60
cagaaaggat tcagatactg agtcatcaga tttgtttact aatttgaatt taggaaggac 120
ctatgctagt ggctatgctc actatgagga acaagagaac taggggagct gctctggtgg 180
ccgtgtgtga gaggagcagg agtgagtgtg tgtgcttgat gaattgtgtg tggttgttca 240
aaagtacctt agccacttag ccttgtgcag aagactagtt acacttaatg ggccaagcaa 300

<210> 431

<211> 300
<212> DNA
<213> Homo sapiens

<400> 431
cttgaagcca cctttttttc cctccaatca gaccactgct gtaaaccaca ctgacactat 60
tgtagtatgc tttttcccta tacccataac acagtgggag attaaaaata attttgtagg 120
gtaggaagag aagtggatag agagccagga gatctaggtt tgggtgctgc tggtcctgca 180
gttaagcagg catatgtctt tgggcaagtc atttcacttg tttagattaa ttttctcact 240
tatgaagtga gggatttgga ctgcttagcg aggtactttt catctctaaa atttatgaat 300

<210> 432
<211> 300
<212> DNA
<213> Homo sapiens

<400> 432
gatagcaaaa cctgattttt caaccatgac ctgcatgaga gaagcatcct aggaagtctt 60
agatcatact tttgagtttt taattttaat ttatatagtg tttttttatg tcttaatatt 120
tttgtgaact ggtgtaaatt gttaatgcat ataagcttgt gtatttttgt aaatagtttt 180
gtgatttatt tcttgcccca tatgtaaata tttagagtct catttcttgc aaacttattt 240
gaagctgagt tgtgggtttg ggttttgttt gtttctttgg ttgcagggtg gggtgggggg 300

<210> 433
<211> 300
<212> DNA
<213> Homo sapiens

<400> 433
gcactttcca tcaccaggcg cgggagtttg ctgtgaactt gcggaaccgg gtgtctgcca 60
tccatgaagt gcccccgccc agatccttca ccttcctcaa tgatgcctgc cagggactgg 120
agcaggctcg gaaggtgctg gcctacgcct gcgtgtacag cttctacagc caggacgcag 180
agtacatgga tgtggtggag cagcagacag agaacctgga gctgcacacc aatgccctgc 240
agatcctcct ggaggaaacc ctgctgcggt gcagagacct ggcctcctcc ctgcgcctcc 300

<210> 434
<211> 300
<212> DNA
<213> Homo sapiens

<400> 434
cattcatata atgatcctat gaggcagaag gaaattaatc agatgttaag tcatgtgtcc 60
aagggcattc agcttagaaa tggaactggg atttgaacct agagtaacca taaaatcctt 120
ccttttctac accaccatgg tacctcctag atgaagctga attttgcctc taagctacta 180
gtcctcacaa tttagtttac aagtcatctg gggcataaaa accagacacc tagaccttat 240
gtagagattg ctacagcaca ggaacaggtg tcttagcaag catgacgtac aactaagatg 300

<210> 435
<211> 300
<212> DNA
<213> Homo sapiens

<400> 435
tgtttttgtt tgggaggtat ttctgaactt aaaaaggaaa attgcaaacc attataggga 60
ctagtttgcc tttggaggaa aaggaaaatt gcaaaccctt ataaagacca atttgccttt 120
ggaggagaaa gccaatttat catccaaaat cctcagaatt ctcaaataca aaaagttctg 180

aaaactgaaa gtttcttctt aagtttggtg gcagaagtta tttatagtct tgacttatcc 240
catttgatgt gaatctgctt acatttcatt gcacaaaatg tttctgtgat tgtgaaatac 300

<210> 436
<211> 300
<212> DNA
<213> Homo sapiens

<400> 436
gtgtccactc tgtaggcagt ttgctaacag tgttcttcca tgttatcctg gaagcaatgt 60
ggaaaataac ccttggcaac gtcctagcaa caaaagcata caagatctca taaaggaagt 120
ggaggagctg cagggacgac cgggagcttt cccagtaagc atcagttcag aaacaaattt 180
aagtaaagaa atggaatctg taatgaaaga tataaaaaat accactcaga agaaatatag 240
agactatagc aagaccccgg gctcaccaga caatgatttt ctctttatgt actctgttgc 300

<210> 437
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 437
aaaatatttg ttaatcaaat gaacatgatt gctaaaaggg ccaaagaaga ttacaataca 60
aaaagtataa taaaagaaaa ttataaattc taaaagcatt caaggaagct gtctttgaat 120
ttgaaatgca ttgtctatag aatatccact cagtggaata taatatatac cttgtgatat 180
gtggatatag atctcactaa tttctaatga tgctttanaa tttngntact nccgatggtn 240
tggnatgngt cttngnaacn nntnnntnat tggtgtt 277

<210> 438
<211> 300
<212> DNA
<213> Homo sapiens

<400> 438
gaagaactgt atgtcaaata attcaaaagg ggcaaaactg aatgtagtta tgtgggaaag 60
ccttcagaaa taatttaaat ggcactgttt atcagagtat gtatgccgag gaaaactaag 120
aatttagtga gcttataaaa ccatggtagc caggcgtggt acgtagctca cacctgtaat 180
cctcccaaag tgctgggatt ataggcgaga gccaccacgc tcagtgagta tgacattttt 240
aaaagaacag tataaagcat aaaatatccc atgtggggca aactcccaga ttattttcct 300

<210> 439
<211> 300
<212> DNA
<213> Homo sapiens

<400> 439
ttttttttga attattgaga atatttcttt ggacccacaa ctataaaatg tgaaaaaaaa 60
taaaaagtat gccaaaaggg ccacgtgttt ctacaacaca cgaaagtaaa gaataatact 120
gcatgtctaa tatgcaaata aaatgtctct gccaaaatat cacaacttaa aatgccatta 180
tgaaacaaac cacagaaaga ccttatttgt gttacatacc aggaacatac caaaatttga 240
atgtctgatc cacacagtga ttcacataag atgataaaga aacaaatgga tattttgtga 300

<210> 440
<211> 300
<212> DNA
<213> Homo sapiens

<400> 440
aaaatattta acttataata atcaaggact caaaagatga aaaatagaaa ttacaccatc 60
ccagtatttc aggtataaca cagaattagt aagatactgg caaaaatatt acaatgtata 120
tatttgtata gagaaggaaa atgaagagac tgcatgtcta tacctaccaa acgaaactac 180
ctgtgttctt tgcatcatta ttcaactggc agttacacat atttcatcct aaagtcacgt 240
aaacctgtgt ggatatgttg aatcaatagg gatatgaatt acataaaaag aattttgtgt 300

<210> 441
<211> 256
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G

<400> 441
tgactgcaat cctaattctc acatgttttg gggaaaaaat tttaattttg aaaaaattta 60
ggaaagttcc taccaaatat acatgtataa agtttattaa aagtcataat gacccaggaa 120
tagctaatga cacagaagta gatcaaaata gaacacanta gagaacttna nantaaaaca 180
ggcgtnnnaa ttntgtnccn nnctnnttgc nnngncnntn tcaccnctng cccngcncnn 240
cncncgtgnc nntcnc 256

<210> 442
<211> 187
<212> DNA
<213> Homo sapiens

<400> 442
gagctctctc tggaaagctc gcactggaat ggagaacaca agcaggaaat gtgaaaagta 60
acggttgaaa gccttactta tgatgacaca tagggaggca ggtgcatatc ttacaattct 120
agacacttgg ataccttggg aaaccatatt gaaagttacc ttgatttctt tctttctttt 180
ttttttt 187

<210> 443
<211> 300
<212> DNA
<213> Homo sapiens

<400> 443
gttggcacct tcagttcagc acagcctgag cagtgagaag gtctgaaagg agagtatata 60
gttaagatcc ttgagaaagg gctgcctgag gaactgacct cttaaagatc tcaggatctt 120
taagacaaca agttaggttc ctactggagt tacctgccag aatggcctct taattaactc 180
aggtaatgaa gagctaactg tgttataatc atcttgcttt tgcctgaatt tggagaaagt 240
attataatta agttcccagt atcagaaatg tccttacata agattaaaat atcttgatga 300

<210> 444
<211> 300
<212> DNA
<213> Homo sapiens

<400> 444
tctggataga aatgcagagg aggctgctct acagctggac agtagtgagc tctgggccgc 60
catgagactg cctgctccat gttgtatgtg gggcagatgt gggagaagga tggtgggaag 120
aatggcttcc aaactgtcga ttgatcagat aaacaaggga ggatgccagg ggataatgcc 180
aagaagaggt gggtaaagaa aggaaaggaa tccacaaaag ggaggagggg agtgcaggtg 240
tgcatgtgtt ctgaaaagtg ctcatgcaca tacagtttgc ttattattta aaaacttact 300

<210> 445
<211> 300
<212> DNA
<213> Homo sapiens

<400> 445
gctagcttgt attgttgtgg cttccttcgt tctctgctgg ctgccattct ttacagaaag 60
ggaacaaacc ctgcaggttc taagaagact cttcccggtt gatcgtggat tatttgagga 120
taaagtagcc aatatttggt gcagcttcaa tgtctttctg aagattaagg atattttgcc 180
acgtcacatc caattaataa tgagcttttg ttttacgttt ttgagcctgc ttcctgcatg 240
cataaaatta atacttcagc cctcttccaa aggattcaaa tttacactgg ttagctgtgc 300

<210> 446
<211> 300
<212> DNA
<213> Homo sapiens

<400> 446
gtcaccttta aggaagaaag taaatttgaa ttgtcaggaa gcaaagttat ggagcagcaa 60
tctaatctac agccagaggc caaagagaag gaatgtggag actctctgga gaaagacagg 120
gaaagatgga gaaaacatct gaagggcccc ttaaccagga aatgtgttgg agcttcacag 180
gaatgtaaga aagaggcaga cgagcagtta attaaagaaa caaagacatg tcaggaaaat 240
tcagatgtgt ttcagcaaga acaaggcatc tctgacttac ttggaaaaag tggaattact 300

<210> 447
<211> 300
<212> DNA
<213> Homo sapiens

<400> 447
ttttagtcca gtggcttgta attaagtcat ttttagtctt taattatgtt ggttgctttt 60
agaattctct tttagagttg gtctacatcc ttttaaaaca tgggcaatcc aaatttataa 120
cagtaaatta agatacataa aaaaaaacac tggctaaatt taaaaggaaa cacttctaga 180
atatactgta ttttgacaca agaccagact gtgctatgtg tatgtggtgt ttcaagtaat 240
ttaagaaaac tgttggaatt ttctgtattt ccagtttcac aagaaacaac ctcaaggagg 300

<210> 448
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 448
gccaggcaac aggactaaac tacctccaaa gcaagcagtc ttttcagttt tgactgagtg 60
atgtgaggaa cttctttctt tttntttnnn ttcntttttn tnnnngnttt ttttgaanct 120

gnttnngttt nnnttntana nggtncatgt ttagctgnnt tttttttttt tttttaatnt 180
ggnaanttat ttgngtnntt tgtnagngan tttttnttnn nnttttatan gttntnaggn 240
ngnancccnn tttnntcnnt tttttttnna aaattngngt ttttt 285

<210> 449
<211> 300
<212> DNA
<213> Homo sapiens

<400> 449
gaaaaaacca atttaataga aaagataggc tttgcttcag gaagctggtt gagaagaaga 60
aggaaaaagt cgattctact gactgacgtt tccccctgct gttaagaatc ccaaccacac 120
actttcacac actattccag gttctggcta ctgaatgatc ccacagctga ggtctattgt 180
catcgctcca cttctatttt tagcagcact aaaaacattc ccaaaaaaaa tgtttttttag 240
ctttttaact gtagattcac cactaagaaa ttggcattgg aacagtccac agagcttatt 300

<210> 450
<211> 300
<212> DNA
<213> Homo sapiens

<400> 450
cagctgccct ggaggtgttt accatgtccc ccattttcca gaaggcgaag ctgggacatg 60
gattaggtca gctgtccaag gtcatggagc aggatccaaa ggaggcctgg agagtgccat 120
ctgtctggcc ccttctttgt gctgcctcta gaggatactg gggaagcctc ctcttgtctg 180
actctgccag gataccccttg gccatcaagt gctcagctaa gccacagtgc cactctgggt 240
caggccgacc tgggcccagc tgtgcaggat gaggtacagg aggcagctgc cacagctgct 300

<210> 451
<211> 300
<212> DNA
<213> Homo sapiens

<400> 451
ggtaattaat aagcagacaa atcagaaaca atatagaaga tctgaaaaat agagttgacc 60
agctctaatg ggtccctgta tccaatagtt agagatgggc attgtttta ggcacatgtg 120
aaataatggc ccccccgttc tggcccagca gaaattatat acttggcaac aagtctcatc 180
acattttaaa taaactgtca aaaagataac attctcatgt ttccgcaatt taattttaaa 240
atgaaattaa atttttttga aggtaaaata cattttggaa atctaaactg tttaactctt 300

<210> 452
<211> 300
<212> DNA
<213> Homo sapiens

<400> 452
ccattgttag catcgtacac gattgtgatt tttatgtcaa aagaagccaa aacttgcaat 60
actattttta gcagacaaaa aaaagaacta agtataaaat gtataaatat ttttgacttg 120
aacatttgga tggcactggg tgcaagtaga gcatccatcc ttcggatgga atgtttggaa 180
aaaagagact tttaaaaagg agacggttgt tttaaagagt ctgtttaggg gttaaagtac 240
tgtaactcac gactgttaaa aaataaattt tcctgtgctg taaaggaagg tttcacagta 300

<210> 453
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 453
atcgtattta ttacttgttg tataggggta gaaaagagga ctgtcaatac aacaagtaat 60
aaatacgata tatatttcat atatagaaca ttagaagggt aaagctctac agaaaaaaaa 120
aaanggnggg caaggccggc cncaggggct nacncctgna atcccagcnn tttggnaggc 180
tgaggcaggg aaatnacctg nggncaggag ttcaanacca gcctggccaa canggggaaa 240
ccntgtntnt actaaaactn caaaaattac ctggncatgg gggagg 286

<210> 454
<211> 300
<212> DNA
<213> Homo sapiens

<400> 454
cagatttcca aattgttaac actttgctgc atctgatgtt ttccacctct attgtatgtg 60
tttttttctt ctaagccaat aggagtaagc tacaggatat gacacccctt gacctcttaa 120
tatttcagtg tatttcctag aagcgaatgc attatcctat atagtcacag tgcctgtaac 180
cacaccagga agttagtatt gccaccaggc ctcacactgt gtgcagtgat gtttcacagg 240
ctcacccact gtatatagtg atatttctag tccccttcag tcaggaacgg tcccttgcct 300

<210> 455
<211> 300
<212> DNA
<213> Homo sapiens

<400> 455
attgcctccc agcttgggag catccaaagt agaaccatga ctgggtcatg aaatgggtta 60
atttggtttc tttcattaca gggcaaagtt ctccctgtgg actgagaaat aaacatatta 120
taaaagttac atatgctcat agaatagaaa tcaaagagta aaaagtattg agtgtaaaaa 180
acaagtgtct tttttccccc cagtctaact ccccagaagt aacctttttt attttttatg 240
ttattttttc ttaccttcaa ggaaggagaa aagtaaccat ttttgagttg atgcgtatcc 300

<210> 456
<211> 300
<212> DNA
<213> Homo sapiens

<400> 456
gagggaggat cccctgggtt gtgcatatgg cgggaagggg tattccagga gtggaggatg 60
tcagcagggt gggaatggga tcagtgaggg gaggaggagc agaggagtca gaaggatcta 120
agggtagggc tgaaggtggg aaaacaacct gtagggctgt ttaggacacg gaaagggcct 180
tgactttgct gccaacgaag atgtgaaggc tccaggcaag ggtaacaatc taacttacat 240
tttatgaggg tcctgtggca gctgtggtga gaacagactt taggggtgct gaggtggatc 300

<210> 457
<211> 300
<212> DNA
<213> Homo sapiens

<400> 457
gccccgttctc cctttcttgg ttaaacggat gaagaaataa aaatgccatt ttcatttgta 60
aacttgtatt tttgtattta tatttaggag tataaaatgt acttatattt aggactacaa 120

aaatgtacct gggaaggtga cgggacctct atactcaggt taagtctcga ctgcacactg 180
acaggagtat gtagaccatt ccatttccct gaagactcag ccttgttagt atcaggactg 240
gtcggcagat gtgcaggaaa aggtggcaag aaagtgcaag ttctagaagc cgatgatatt 300

<210> 458
<211> 300
<212> DNA
<213> Homo sapiens

<400> 458
actggcccaa ttaatattca tgcctgggag tattagatag gtgctccaaa aacaatatag 60
atcctatttc caaatgagga ggagtggatg cagagttgaa aggtgaaaaa aaaaaatgtt 120
ctttatagtg ctccagtttc ctttcttaga aaagtctaac tactgattga ttgattgatt 180
tacttattta gggttggagg tgcagatttc attgacaatc agaaagggca agtttgattt 240
gtcttttcat cctaaaagta gcaacaagtg tttgcaaaag gctggctctt tgttcagtgc 300

<210> 459
<211> 300
<212> DNA
<213> Homo sapiens

<400> 459
gagatgtgtc atcctggtga atgtcccttt aactgcaacc agaaggtaaa acttaaatgt 60
ccttgtaaaa gaataaaaaa ggaattgcag tgcaacaaag tacgtgaaaa tcaggtttca 120
atagaatgtg acacaacgtg caaggaaatg aagcggaaag catctgagat aaaagaagca 180
gaagccaaag ctgctcttga agaagaaaaa cgaagacaac aggctgaact agaagctttt 240
gaaaacagac tgaagggtcg tcggaagaag aacaggaaaa gagatgaagt ggcagttgag 300

<210> 460
<211> 300
<212> DNA
<213> Homo sapiens

<400> 460
ttttatataa gcagtactct ttctcagttt ctcttgaaca ttcaactcat tagtgagtgg 60
ttttccccag tcatttccat ttttctttat ttggctctga tagttttctg tttttgtttt 120
tcagagataa tcctttacta tactaaattc tacgtgatta tattttccac ctctatttgc 180
ctatatttat ctgctgtctt ttccttttcc atatatgggc ttattttttt tttccctctt 240
cttccttttc tacctttggt atttaaaaag ttacttagga ctgagtgcac tggcttacgt 300

<210> 461
<211> 300
<212> DNA
<213> Homo sapiens

<400> 461
gagatgtgtc atcctggtga atgtcccttt aactgcaacc agaaggtaaa acttagatgt 60
ccttgtaaaa gaataaaaaa ggaattgcag tgcaacaaag tacgtgaaaa tcaggtttca 120
atatgaatgt gacacaacgt gcaaggaaat gaagcggaaa gcatctgaga taaaagaagc 180
agaagccaaa gctgctcttg aagaagaaaa acgaagacaa caggctgaac tagaagcttt 240
tgaaaacaga ctgaagggtc gtcggaagaa gaacaggaaa agagatgaag tggcagttga 300

<210> 462
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 462
ccgtggcccg tgggggatac agaggcagag gaggtcttgg tttccgtggt ggcaaagggc 60
gtggtggcgg cagaggtggt accttcactg cccctcgagg atttcgcggt ggattcagag 120
gaggtcgtgg gggccgggag tttgcggatt ttgaatatag gaaaaccaca gcttttggac 180
cctaaaaggt ctggattgat cgtactgctt tctgaaagaa agacgtcaaa gctgctgcat 240
agtctacaaa cnngtctctg aaaatangtg aatttctagc tcttcatggt cctgaacatt 300

<210> 463
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 463
attggagtga catttctcac gtgtgaattt ttcacataac taaaaaacaa acctaaaaaa 60
aagttagagt taaaaaaata gtaatacctt ccttttaggc cagttgcggt ggcttacgcc 120
tgcaatccca gcactttggg aggccggcac nggtggataa tttgatgtca ggaggcttac 180
cagcctnngc agctggngaa nccctatcan acctgannan nnngnnantn tntgctcatg 240
nggtcttcaa nttnttttn tcttntgctt ngntaccant ngncactgct ccatgttaaa 300

<210> 464
<211> 300
<212> DNA
<213> Homo sapiens

<400> 464
tgtacttaac tgttgtgtga tgtgtgcttt tgttaggcat cactgtgccc aagtatttca 60
tgttcattgt aaagaggaaa aatacagatt tctctataat gtcaccactt atttctaatt 120
gccacttttc atcttgtgga aatgccatgt tttgattcag tcttctgaat ttgaacatta 180
ttcaggttat ttccaattgc tgggaatatc cttactgcta aaataaattc ttagcattgg 240
aattgctagg tcaaagatta tgcatgcttt ttaagggctt ttgaaatgta ttgccagtct 300

<210> 465
<211> 300
<212> DNA
<213> Homo sapiens

<400> 465
aatatcccca aataacatgt cttacatgtt tggtaagact tactgtaccc tgtcctagaa 60
gatagaagat gccctgccct tagaagacaa agagactgta gagctatgcc ttctaaatct 120
taagccactc ttcagataat ggatcccttc atggtcagcc caaacatctc aagaactttt 180
aatttgtacc gtttgtcttt ttttccattt atttaatacc acaaattcac tttattatta 240
tgaagccaat atctacatct tctcacaaag attctcttaa gaaatgcaga actggccggg 300

<210> 466
<211> 300
<212> DNA

<213> Homo sapiens

<400> 466
aggacatgaa aaggagtgaa agttaagaaa ccttagctgt agtgtttgga attaacactt 60
gggaagtcat gattgacaaa tagagaaata taaatttgtt ttatatcagt tatatataca 120
tatttataac tgatataaaa caaattagat tttgacatta gaaacacata tacacatact 180
gtaatatgta ctttcttcat tctctttaac ctatattctg gttttaagtt tcctggagcc 240
cgtggagtaa tgggacagga aggctcagag ggtctcttta ctgatagtta agatacaaaa 300

<210> 467
<211> 279
<212> DNA
<213> Homo sapiens

<400> 467
cgggttggag cctggcgtag tcatggccgc cttccgcgac atagaggagg tgagccaggg 60
gctgctcagc ctgctgggcg ccaaccgcgc ggaggcgcag cagcgacggc tgctggggcg 120
ccacgagcag gtggtggagc ggctgctgga aacgcaagac ggtgccgaga agcagctgcg 180
agagatcctc accatggaga aggaagtggc ccagagcctt ctcaatgcga aggagcaggt 240
gcaccaggga ggcgtggagc tgcagcagct ggaagctgg 279

<210> 468
<211> 300
<212> DNA
<213> Homo sapiens

<400> 468
aaacaagcga cactctagtg gtgatgggaa tagtaaatta aaaagtgagt agatggattt 60
ggacaacata aagcaacaaa atttgagatg gttgaatgag ggccggaggc catgatgaaa 120
agggcacttt ggaaagggtt ggggtggaag ggaaatattt ccgggtgggt gtgagctgtt 180
gggcttccag gtcagctctt ggccatgcag ccatgcctgc aggatgatca gaagtcacgg 240
cacctcatgg gaaggttaag actggagcaa agcttttcca aggtgagcat attcagcgtt 300

<210> 469
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 469
cttgatatca atggcctgcc atatggtctg tgtgccggct gcgtgaatct cagtaagagc 60
gccagcccag gcattaacgt ccctccccggc acgaatagac caggcttggg ccagaatgag 120
aatctgagtg ccattgaggg gaaaggcaag gtggggggac tgaagacacg ctgctctagc 180
tgcaacgtta agtttgagtc tgaaagtgaa ctccagaacc acattcaaac catccacgan 240
agctngtgcc atacngcaac ngcanncngt tnaaaanccc caagtatncc antgcccaaa 300

<210> 470
<211> 292
<212> DNA
<213> Homo sapiens

<400> 470

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gtgaaatgat ttgctgcact gcaagggagg tgagtgagac caaggaacta cacccaccaa      60
gatccccttcc aagggtctaa gttgcttctc taatcagaaa cctctcaaac ctttgcgact    120
gtgcacatag gtcccatgat ggctttggca acatttacct gggaccaggg tgaacttcgt     180
accatgtatt gcatatgaga aaagaaaaga atgtttgtca aacaaaccac tatgttttat     240
tttattttat tttagtgttg ctggtaggtg tgtagtgagt tctcagtgtg tg             292
```

<210> 471
<211> 256
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G

<400> 471

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gctctttact tggtgaacac atattgtaag aatgtgaact gatgattgga aacattactt      60
ttgacaagtt cccatacttg aaatactaca aaaacatcac ctaacaagca gaacaaccat     120
gaatgggtag acattgatta aacatttaaa aagaaacaaa aaagggagat ggcaaaaaaa     180
aaaattgttt acatctgttt taattgattg ggtgattcat taatcattnn ttgcttataa     240
nnnntacntn ntccta                                                     256
```

<210> 472
<211> 300
<212> DNA
<213> Homo sapiens

<400> 472

```
cacaggccct tttgtgatgc gttccacgtg taggagatgt ggtggccgcg gctccatcat      60
catatcgccc tgtgtggtct gcaggggagc aggacaagcc aagcagaaaa agcgagtgat     120
gatccctgtg cctgcaggag tcgaggatgg ccagaccgtg aggatgcctg tgggaaaaag     180
ggaaattttc attacgttca gggtgcagaa aagccctgtg ttccggaggg acggcgcaga     240
catccactcc gacctcttta tttctatagc ccaaggctct ctgactgact ccgtcccaga     300
```

<210> 473
<211> 300
<212> DNA
<213> Homo sapiens

<400> 473

```
gcagttttcc agctctaagc accggcaaaa gaggaaagct ttggcactgc taatcctcct      60
ttctacacaa cctccctccc tcctgcccga gttcctcctc gcacttgctc tgtttgtcct     120
ctcacctttc tctgtcaaaa tctgcacttg gatatgagcc taggatcagt catttggacc     180
ttaatttcag tgtgtgtgct tcctttgcct caaattgtgg caagaaaaat agtcgttcct     240
cattaaagca gtatcagcta tccttgagca caagtgggag gttgggtatt ttttggagac     300
```

<210> 474
<211> 300
<212> DNA
<213> Homo sapiens

<400> 474

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gcaccacaga ataagagttt gccgtgtaaa gacaatatcc ccattcgtca tgctcttatt      60
ttcccgtggg atatttgcat acaaatgcat gtctgttacc aaaatattgt gtaacacaga     120
cagaaaccac ctgtttttgt ctttccttgt ttcccttaat atttcatgaa ttgtctagca     180
```

aaaatggtag gatgcttctg tagttcacaa atgttacatt tcagagactt tagaggaaaa 240
attattttaa ataactgtca actgtttcat tgctttttaa atttttcacg tgcataaccc 300

<210> 475
<211> 300
<212> DNA
<213> Homo sapiens

<400> 475
cttaatgttt ttcaattgct caacgaactg tcagccctgt cagatatcat atatctggta 60
aaattacccc ttaggaatga gggggaaata aatacatact agatgaagga aaactaagag 120
agtttgttgc tagcagacct accctaaaag aaggctaaag aaagttcctg gctgggtgca 180
gtggctcacg actgtaatcc caacactttg ggagactgag gcctgccaag ctgaggccag 240
gtggacagct tgaagcctgg agttcaagat aaccctgggc aataaaggga ggcctcattc 300

<210> 476
<211> 300
<212> DNA
<213> Homo sapiens

<400> 476
ccaagatatt cccaaatctc caaatttaaa aatagctctt tcgcacacga tttctcccac 60
agaatgtagt aatgtagata tgaaacattc aggtgaactt gttagaacta atggttctat 120
aaataaaaac tgacatcatt cataaagtta tttaaataaa ttttgtcact aaaataaatt 180
tatatgttac atcattgcta ataatgattt taactgtgag ttttcttttt gtaaaaaaga 240
attgagccaa gccccagggt ttttctaaca agctgacggg atacttggct ggggttctca 300

<210> 477
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 477
atccaattat ttctagaaat cccattgatt tcagggaact gaatttgata gccaggaggc 60
attccactgg cttcttaaag gacattattg gttttcattt tgttttgttt tgatttcaat 120
tgcaactcaa acaatgaatc ttccaaagat ggttaccctc actctacaaa agtgctaagt 180
taatattctt taaaataaat acaagcattt cttggactag ataccatcaa ctttaatttt 240
atttttctca cataaatggt aacccaaaac ttaatgaaaa tttccttntg ncacacagc 299

<210> 478
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

<400> 478
ttttatgaaa gccctgggac tatagattta gctgattaaa tttatagaaa aagtcctgtc 60

atataaactg gcaaagtctg ttcttaattt aattagccaa atcagactta acttccgtca 120
gaacatgtct tggttttaat tcagataaac acacnaacat acttctctgg cacagccttc 180
anaancatcn gcttttgntc tgttntcgtn cnnnnncgtg nnctntcntt cnnntncgct 240
gctcctcgnn tngccgtntt gngncgnnag gtngtcgctc g 281

<210> 479
<211> 300
<212> DNA
<213> Homo sapiens

<400> 479
acttgtcatg gagctggcac tgtggcgctc tcccgtcccg cggtggttgc tgctgctgcc 60
gctgctgctg ggcctgaacg caggagctgt cattgactgg cccacagagg agggcaggga 120
agtatgggat tatgtgacgg tccgcatgga tgcctacatg ttctggatgg ctctattatg 180
ccaccaactc ctgcaggaac ttctcacaac tgcccctggt catgtggctt aagggcggta 240
caggcggttc tagcactgga tttggaaact ttgatgaaat tgaccccctt gacagagatc 300

<210> 480
<211> 300
<212> DNA
<213> Homo sapiens

<400> 480
ttttagatct tctgaagtat atcagtggct ttaatgacaa atcaggccca ttttctcctt 60
tcctatcatt atgctgtatg tatagataga atatgtattt tagatgtttt attgtttagt 120
tattatttta gtcttatcct tctaaagttc agcaaagctt taggtaaatg gcgtggattt 180
ttgaaatcct gcattcagtc gctagctgac atttagaata caggaatagt agtttcctgg 240
aaaacagtga cacttatgtt aaattcttgt ggtttttaca aagtgaggtg tcaacacaga 300

<210> 481
<211> 300
<212> DNA
<213> Homo sapiens

<400> 481
gataaacttc acttatcaat attacttata tttggctgca tgcctctgac acttcatctg 60
gcctcatgtg ttttccattt tttctttctg aacagactag cccatgcccc ctgcccacct 120
catctcacct ccacctcttc ccttctccat tccccttttgg ttcacccttt ggcagaaggt 180
actggtggct cagcctgcat gccgctgtct ctcctctcgt gctggcatgt catggtggca 240
ctgttgtgat ctcttcctct tcctttttac taacagacgc agaccaaact ggagcatgcc 300

<210> 482
<211> 300
<212> DNA
<213> Homo sapiens

<400> 482
aagaagaaaa attacaagaa aacatctggt ttttgcatgt ttgatgtgtt tgtgtgtgtg 60
tgcgtttaca gttttaactg atattaagtg aagatagatt aatgtcaccc aggttttaca 120
aaatcaaaga aatagaaata attttaaaga cttttggtac ttgaattact ttgttgtttt 180
ctggtcattt agtacattta tggaacctca gaaggtttga gttgaacaga ggcaagttac 240
agcagttttt tgggtgggag aattcataag tcagcatgtg aatcttttga tctcatatat 300

<210> 483
<211> 287
<212> DNA

<213> Homo sapiens

<400> 483
caaacttctt tgtcttttga atagtgtgcc tttaatagaa cacatatagc atagttctag 60
ggattagagt cttctgactt cattactatt tttacagtaa tttatatctt ggtttcttca 120
attagaaaaa aaaatcgggc ctgatttttt atttcattta ctagctcagc tgttctcaca 180
cctacctgct gaattagaag ggacaagtat aatccatctt cttttcttct ttccctcctt 240
ctgtaataat gtttttctat tttgcagggg taattttttt ttttttt 287

<210> 484
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 484
gcggaggggа aatggctgcc gaaaacaagc cggaagatga tcatgggaac agcaatagta 60
gtcatgtaaa aatcttttta ccgaaaaagc tgcttgaatg tctgccgaaa tgttcaagtt 120
taccaaaaga gaggcaccgc tggaacacta atganagatt atgatgcatt tgtcttnttn 180
ttttttntat nntnttnntn tnnnnttttt ttntttntat ntantnnttn ntnttntann 240
nttttttnnnn nttttntttn ttngggactt ctttt 275

<210> 485
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 485
ggtaagtgct tagaacaata tctaacacat agtggttgcc cagtaaatgt gagctgtgtt 60
gattttgaga ttataactac aataataact ttttcaaatt gatacatatt tagccgatat 120
aatctaattt tttaagatgg aattattcta nttntnnnat ttnttttnttn nnnttntttt 180
tttntnnntn tnttnnnnnt tttnntnttt ttnttttnnt nttttttnntt ttnttntttt 240
tttnntttnt tttttttttnn tnnnnnttnt tttnttntnt tttttt 286

<210> 486
<211> 300
<212> DNA
<213> Homo sapiens

<400> 486
gctgagagac cccttgctga tgcagctctg atggcaccag tgactgtcca tcatgcattc 60
cttttattct ctctccttta gtatcgattt taaagggcat taagcactat ggttccagag 120
tttcttgggg aaaacttgca gattcttatt aattggttct gcaatactta aataaattat 180
tttacaatta taagttttca gattataaca tttgcattaa tttttactga ttttccaaga 240
tacttcttac atttactatt tacgtacctt tatgtacatt ctctgtaaaa atagacctct 300

<210> 487

<211> 300
<212> DNA
<213> Homo sapiens

<400> 487
gtggagtgtt ggctttcatt ttttcttggg caagatggaa aattctcttc ctgttactcc 60
atcttggcca gaaatctaaa ttctcatata aaccgatttt gcttgttcag ttgttatttt 120
tatttgcaac taaaagcaat gtcatgcatg atgacttgaa gaaatgtctg aaacttttga 180
aaattcctta tttggcaaga aaatctactt atttatttaa atagctttcg aacataccct 240
tcccctcactc ataattgcgg ggtaggagca caccacagtt tattagtaaa agttatttta 300

<210> 488
<211> 300
<212> DNA
<213> Homo sapiens

<400> 488
agacatttac agccatttat ccagccatca taattttatt gagtaactat tttgtgtgag 60
gcactgtact ggatgctttg gcaacagaga taagcaaggc aacccctgtg aataaggcac 120
tcctggtcta cacacagtgg gagaaacata gaaattcatc tcttctgagc ggagcctgtg 180
ggaacccaga ggatggacac ccagcgtgga ctgaggaatc atgggccata acaggaggca 240
tctggagaga tctcttgggt aaagaatagt gagggctgga aggatattcc aggcagtggg 300

<210> 489
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 489
caggaataat gctgacatac atacatatat atatatatat gaagagagag agagagtcac 60
acacagacag acagacacac ggagtctcgc tgtgtctccn tgnctggagt gnatnnnctt 120
ntaggncntn ngtntttcct tncngggttn ctntctnaga ganagagaga gtcacacaca 180
gacagacnga cacacggagt ctcnctgtgn ngcccaggnt ngngtcttga ngnnnntttt 240
tannnntntt gnntntntgn ttct 264

<210> 490
<211> 300
<212> DNA
<213> Homo sapiens

<400> 490
gaaaagtgag tctgtccaga gatacttata gacggtagtt gattagagac gagaaacgaa 60
ggaggtgaag ccggggtttc tggcatgggg aaccagatgg gtggtggtgc cattcactga 120
aatagggagc actcaatgag cagattttct gagagaggtc aggaagcagg atagtgatgt 180
gatggtgtgt gtggagacct gcaagtctgt cggtgcacta gccttcactt cagtggggag 240
aggcttctac cactttggga accatcagtt tgggattgat agttaaccca ttggagtaga 300

<210> 491
<211> 300
<212> DNA
<213> Homo sapiens

<400> 491
tagtgatggg gaactgacta cctgaaaaca gctcactcaa ttgtttaaca cttccagttg 60
ttggaaagtt ctaaagcata tcaacagcta accattatta agcacatatt gtgtgctggg 120
tattgtgtta agtgcttgta tgtgttttcc cttaaatact ctctgtaatc ccttgaggcc 180
aggttagtat ctccattttt tagagcagga aacagagatg tacagtttct tgttcaggct 240
cactcaggtg gtggtggaac aggaatggac cccatgcagt tggcctgcag cctgtgctcc 300

<210> 492
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A,T,C or G

<400> 492
gatcaatata cagttgtcct cagctggttc caggcccccc cccacccctt accaaaatct 60
gctcatactg aagtcccgaa gttagccctg caaagaccct acagaacctg cacttaggaa 120
aaggcagccc tctgaatacc agggattcga gtccctgacc atggatatgt gggtccacgt 180
ggttcaaaca agtttttttt tgggacggtg tctcactgtt gcccaggctc nnacnnncta 240
ggtcnccnct tncnncntcn ncncttcatc cnntccttcc gtcccgtc 288

<210> 493
<211> 300
<212> DNA
<213> Homo sapiens

<400> 493
gtgcctcctg cctctccaat cctgatcccc cattcccagc caaggagagg ttttcagccc 60
ttggtcaccc tgatgacctg cagctttcca ggccctaggc tgagaagttt aagtccagtg 120
tctcattaat cctcataata atctagggag gccgggcacg gtggctcaca ccttgtaatc 180
ccagcacttt gggaggctga ggcaggtgga tcacttgagt tagaagtttg agaccagcct 240
ggccaacatg gtgaagcccc gtctttacta aaaatacaaa aattagctgg gcgtggtggc 300

<210> 494
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 494
gattgatgta ggttttaaaa aaggcatttg tatgttgtta gcttacatat ggggctaggt 60
aatttcattg cttaaaaaga tgcgcctagg ctccctcttg gtggctggat ttcttttttct 120
tcgcccgtgg tggccatggt tcttaatagg gccaccggaa tcatggtttc tttcttttttt 180
ttttttnaa aaggnannnn ccccttggac ccnngnnnga angccagggc cccaaatntg 240
gnntaannga accntnnncn nc 262

<210> 495
<211> 300
<212> DNA

<213> Homo sapiens

<400> 495
ttaaagagcc atgacaacaa aatgcagccc ttgattctag tctggattct ggacttgaag 60
ggaaacattt ttcttatctt ttgctataag ggacattagt gggacacttg gcaaaattta 120
aattaactgt agattagata atactattgt attgttaatt ttctggcttt tattctactt 180
tgattatatt ataaaagtcc ttgttgttag gaaatagaca ctaattattt tgggttaaag 240
gaatatcatg tgaaattcac tttcaaacag ttccaaaaaa cacagtgata tatatgtata 300

<210> 496
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 496
ggacagtggt tcctgaaggc ctgtggccta ggagaaggag acactgaggt gtttcctacc 60
caacatgtgg tccgtgctct ccaaactatc tttgagctga acgtccaggc ctttgcagga 120
ggggccatgg gggctgtgaa tgggatgcan ccctatggng tccctgactn attnanngtn 180
nntnctnant aantcttgng ttttcttgtt tttnnttntt tttnttntcn ttttnnttan 240
ttnnntnttt ttntttttn nnnt 264

<210> 497
<211> 300
<212> DNA
<213> Homo sapiens

<400> 497
atcataccca gcctgtgttg ttttttaaca atatataata aaagccaaca tttattcagc 60
actgaagtat tttatacaca ttagctcact taatttttac aacaaacctg tgtgggaagt 120
actgatataa ttaatcgata ttttcagata agaaaatagc agctgaaaaa gtacaaatac 180
tttcctcaaa gacagacagg gcttaaatca ggcctttctg atgtagacca tgctcttcac 240
taccacagag ttccatgcta ctttctctcc ctctccctcc tctcctgtcc ctgctacaca 300

<210> 498
<211> 300
<212> DNA
<213> Homo sapiens

<400> 498
gcaacgaaat aattttaaag tggatctggg ttggtagtgc ttatgggagt taggcaagga 60
aaaatgcaga ttctctttag aatatcttca cctaggtccc aaaggattct catagataga 120
tttccaacaa atatgaggtt ataataaaaa atacaaatca catatagaag tatggcacca 180
tgaatgagaa aggaaaaaac tgtcagaaca agaccctcaa gactttactg gaattaacaa 240
gcaatatgta aagtaaatag aaataagcta ttcataataa gaataatgta taagagacta 300

<210> 499
<211> 300
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 499
caggggtgag ccaccacacc aggccaagca ttttctttca aatacaagga atatttttct 60
gatttaaaaa aaaaaaacga actttttttc tgataatcaa agggaaagtt gcaaagatga 120
aaataaaagt catctgtaat ctcaggtaat accaggtaat taacattttg ctggatttct 180
taccantgaa aatgaangcn tatttttaag gtggntgcng ncntnnttnc nngttnntnn 240
ntnggnttng ttancnnnna gnatgtnntt cntnttannc ttgttntnnn tgtagtctct 300

<210> 500
<211> 300
<212> DNA
<213> Homo sapiens

<400> 500
tggctgtgga tgttaacaac atgttgcatc tgtacgccag tatgctgtac gaacgccgga 60
tactcatcat ttgcagcaaa ctcagcactc tgactgcctg catccacggg tctgcggcga 120
tgctctaccc catgtactgg cagcacgtgt acatccccgt gctgccgccg catctgctgg 180
actactgctg tgctcccatg ccctacctca taggaatcca tttaagttta atggagaaag 240
tcagaaacat ggccctggat gatgtcgtga tcctgaatgt ggacaccaac accctggaaa 300

<210> 501
<211> 300
<212> DNA
<213> Homo sapiens

<400> 501
aaaagaaaac gagaccaagt aataaagcag aaggaagaag aagcacagaa gaagaaatct 60
gacttggaaa tagagctatt aaaacggcag cagaagttgg agcagcttga acttgagaag 120
cagaaattgc aagaagagca agaaaatgcc cccgagtttg tgaaggtgaa aggcaatctc 180
aggagaacag gccaagaagt cgcccaagcc caggagtcct aggctgaggc tgcaccaaga 240
cctcgtgtgt caccccacag agctgtctgt gggtgccttc tcaatctcag ggcaaaagcc 300

<210> 502
<211> 300
<212> DNA
<213> Homo sapiens

<400> 502
gccagctcga gtagacgaag ttcctgatgg agctgtaaag ccacccacaa acaaactacc 60
cattttcttt tttggaactc atgagactgc ttttttagga ccaaaggata tatttcctta 120
ctcagaaaat aaggaaaagt atggcaaacc aaataaaaga aaaggtttta atgaaggttt 180
atgggagata gataacaatc caaaagtgaa attttcaagt caacaggcag caactaaaca 240
atcaaatgca tcatctgatg ttgaagttga agaaaaggaa actagtgttt caaaggaaga 300

<210> 503
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 503
tcaggctggg agggacttca gttagcatgg tgggggagaa ccagtaccac atacccagta 60
ggtaataagg tgtccagcag aggatgaagg tcagcaagat aagcagggcc agtctcaggg 120
cccggagacg aacacggtga caattgtcaa aggagcgggg gagggcaaat tcaccagcag 180
gggctaggaa tttagaatat atactgtact tcacacactc actttctgat ctgagtatag 240
ggtgaattga tggagggtca ttcctagtgn ganngganntn gcctcctaca atg 293

<210> 504
<211> 300
<212> DNA
<213> Homo sapiens

<400> 504
ggaaaaggag atcaatggct caaaggtcac ctgtcgggga ctactggagt attttaaggc 60
atatattaaa atttatcaag gagaagatct gcctcacccc aagtccatgc ttcaggccac 120
tgctgaagcc aacaacttag cagctgcagc ctctgccaag gacatttatt ataacaacat 180
ggaagaggtt tgtgggggag agaaacctta tttgtctcca gacattctag aggagaagca 240
ctgtgaattc aaacaacttg ctctggacca ttttaagaag accaagaaga tgggtgggaa 300

<210> 505
<211> 284
<212> DNA
<213> Homo sapiens

<400> 505
gaccgactga agctgctggt gctgtacagt ggagaggatg atgagctgct acagcgggca 60
gctgccgggg gcttggccat gcttacctcc atgcggccca cgctctgcag ccgcattccc 120
caagtgacca cacactggct ggagatcctg caggccctgc ttctgagctc caaccaggag 180
ctgcagcacc agggtgctgt ggtggtgctg aacatggtgg aggcctcgag ggagattgcc 240
agcaccctga tggagagtga gatgatggag atcttgcagt gcta 284

<210> 506
<211> 300
<212> DNA
<213> Homo sapiens

<400> 506
aaagtgaata tcgagttggt aacgccaaga ataccagaat tctggaaatc catgaagcag 60
cagcataagt ggtttgcctc tttctccagc agcaacatag tgaaatctta accctgaatc 120
cttgtattct tggcgttacc aactgagaga atttaaaagt gaatatcgag ttgtagcact 180
ggatttgaga ggttatggag aaacagatgc tcccattcat cgacagaatt ataaattgga 240
ttgtctaatt acagatataa aggatatttt agattcttta gggtatagca aatgtgttct 300

<210> 507
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 507
gctgctcaag gattgcaggg atgaggcaag tggaacagcc tcggaacctc cgaaaatggg 60
cacgctccag gtcccagttt ctatggcaac cataccggca aattgggctc cgcaatggtt 120

tctcctggaa aaaccgtgat tttggttacc gcngacgtct ntancnntng gnnngnctac 180
nnnnttntaa annntttata tgngaatatg tattgcatat ntntngncan cacttantnc 240
tttacattnt ctatgatgcn nngacctttg ttangttttt tgnctnntga cccttttc 298

<210> 508
<211> 299
<212> DNA
<213> Homo sapiens

<400> 508
gcggctcttt tccctcgtga ctcggttgct cctggcgccg cgacggggcc tcacggtccg 60
cagtcccgac gaacccctgc cggtggtgcg cattccagaa gagctcccga gacatacttc 120
tctgcacaga catagcctct cggggcctgg acagcactgg tgtggagctg gttgtcaatt 180
atgatttccc cccaacgctg caagattaca tccacagagc agggagagtg ggccgtgtgg 240
ggagcgaggt gccaggcacc gtcatcagtt ttgtgaccca tcctgggatg tgagcctgg 299

<210> 509
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 509
ggatcttctt caatcagcaa taacaggtgg ctctatagaa tggagggtag aagggatgtg 60
ggtgacttac tcagttttta gttaaagagg accctcttct gttagcatgg tgaagtgcag 120
tttctttaat aaattgtgca tggtgggggt gggattannt ttnctgtngt ttacttcagn 180
cttgcttnna cncctantna atccntnatt ntannntnnt ctctctttct ncctncctct 240
ctttnttcnn tgntntnncn ntnccctntn ncctgnccnt tnnnaanatt ctntcctctt 300

<210> 510
<211> 300
<212> DNA
<213> Homo sapiens

<400> 510
gtggagggat gcactatttc acaaggtcca agatttgttt tcagaagatg aaaatgaaaa 60
taaaatagag tttaggaaga aaggaggatt tgaaggggga ggattccttg gaagaaagaa 120
agttccctat ctggcatcat caccaagtac ttccagagtg ctgggattac aggcatgagc 180
caccacaccc gacacttaaa gggcatttct tatttatcct tgttttagtc acaccatagt 240
ggaatgagta atcagtttta gaagctgcaa atttaccatt ctctcaaaga tgctagtgta 300

<210> 511
<211> 300
<212> DNA
<213> Homo sapiens

<400> 511
aaacaccaag aatggcacct gtttggataa ataaggctat gtttttgaaa gtaacctttc 60
cacaagtcaa taacagaagc tatggtgaaa tgtaaaaatt cacaattcta ctttgtttca 120
ctgagtgccc aatcaacgat tcatacagtt gagatgaatg tgacaaaact ctttatagat 180
aaatatatat gcctaagttt atctatatat atatgtcttt gtgtgtatat acatacacag 240
atatatgcaa agacataaat aatcttcctt acaaaacatc aatagatcat tttcacaggg 300

<210> 512
<211> 300
<212> DNA
<213> Homo sapiens

<400> 512
ccagcctgcg tttcaaccaa gaccaaagct gcttttgctg cgccatggag acaggtgtgc 60
gcatctacaa cgtggagccc ttgatggaga aggggcatct ggtgctgatc tgggacgatg 120
cccgggaggg caaggactcc aaggagaagc tggtgctgga gttcaccttc accaagccag 180
tgctttctgt gcgcatgcgc catgacaaga tcgtgatcgt gctgaagaac cgcatctatg 240
tgtactcctt ccccgacaat ccccgaaagc tgtttgagtt tgatacccgg gacaacccca 300

<210> 513
<211> 300
<212> DNA
<213> Homo sapiens

<400> 513
gaagctttca tgtcctgcat tgtggaatcg ggtgtgtcac cctctcaaca cattgatatg 60
ttcaccaacc aggatgcttc accatgcttc ggtatctaaa gtttttattg gggtttcatt 120
atatatgtat aattgattga atcactggcc aagtgattga actaaatctc caccctaccc 180
cttactctgg gtgtcaggct gactcaaagc accagctatg taatcacatg gttgttctcg 240
ctggtaactg gcctccatct tgggtcatct catcttccag cccaaattca ggtgtgatcc 300

<210> 514
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 514
gagaacatct ttgagtaaga agatgcagtg tttgaacctg aggaaaagtt aaagcgtaga 60
aaatattgtc ttgccgaagg attttgcagt cctctgtcag taacttccat tgattacgca 120
gacatattca ggtaaaccct aatcattaag aaaaaaatta tcaatgtaga aagtaattcc 180
ctttttctc tctgagatat acctcaatca cacacttccc cacccccact tgaaacagac 240
ctcttcactt gtgtttttt ttcctgaggt ggagtcttcc cctgtntgcc caggctggag 300

<210> 515
<211> 300
<212> DNA
<213> Homo sapiens

<400> 515
tagaaatgag atgactttat gtctaagatt tgcattaaaa tactataatc atttgaagaa 60
agaataaagt aaatatgcca aattttgtat tataattcaa tctgtatgac agttatgtga 120
gttttttttt gttttgtttt atgcttgtgt gaagattttt gtagttaagc ttttttttaaa 180
aaaaagtcaa ctgagttact tacgtgatga aattagaaca catacttctt acaagcacat 240
tctctcctat ccccctctcc atttcagttg gcaccataat gccattttg cctaaccata 300

<210> 516
<211> 300
<212> DNA

<213> Homo sapiens

<400> 516
agcaaatgtg ggaactgcca aaccaaactg cacgacatcg acggcgtacc tcacctcatc 60
ctcatcgcct cccgagacat cgcggctggg gaggagctcc tgtatgacta tggggaccgc 120
agcaaggctt ccattgaagc ccacccgtgg ctgaagcatt aaccggtggg ccccgtgccc 180
tccccgcccc actttccctt cttcaaagga caaagtgccc tcaaagggaa ttgaattttt 240
tttttacaca cttaatctta gcggattact tcagatgttt ttaaaaagta tattaagatg 300

<210> 517
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 517
caaatgtggg aactgccaaa ccaaactgca cgacatcgac ggcgtacctc acctcatcct 60
catcgcctcc cgagacatcg cggctgggga ggagctcctg tatgactatg gggaccgcag 120
caaggcttcc attgaagccc acccgtggct gaagcattaa ccggtgggcc ccgtgccctc 180
cccgccccac tttcccttct tcaaaggaca aagtgccctc aaagggaatt gaattttttt 240
tttacacact taatcttagc ggattacttc anatgttttt aaaaagtata ttaagatgcc 300

<210> 518
<211> 300
<212> DNA
<213> Homo sapiens

<400> 518
ggcatgagcc accatgcctg gcccaaaact tcttaaaaag gatgatgatg gtggtggtga 60
taatattgtt atcatcatta tctaacacat agtgcttact ttctgccagt tgttgttctc 120
agagctttac atcattaatt catttaagct ttgctattga cctcctcacg gatcttaaag 180
actttgacct tacaacctca tgaaataaat cctactgatg cgattgtaca gatgaggaaa 240
ctgagctaaa agaggcacaa cagcttaaac ccaggttaca cagctaatac gtgatggaac 300

<210> 519
<211> 300
<212> DNA
<213> Homo sapiens

<400> 519
cttgaatccc ttgaccttac tgatgagaaa aaggtcctcg agtgggctca ggagaagcgt 60
aagctgagcg tgttgcatat tcacggagtc tacaccaacc ctagtggcat tgtccttcat 120
ccggctggat atcagaacgt gctcaggaac actgaagtca tgagagaaat tcagaaactc 180
tacgaaaaca agtcatttct tttcctgggc tgtggctgga ctgtggatga caccactttc 240
caggcccttt tcttggaggc tgtcaagcat aaatctgacc tagaacattt catgctggtt 300

<210> 520
<211> 300
<212> DNA
<213> Homo sapiens

<400> 520

gttcagtggt caatacaata gtccaccaag agactgggaa tgattagaag tgaaattggt 60
ccctccttac caaggagggg cagatgatct ccattgcaca gggcgattag attctggagc 120
tgaggtgggg actgcaggag gccacctagt ctggtaggtt tcaacccaag ctgtgtacat 180
tagaattccc ttgggagcgt gcaggaaata cagatgccca tgccacattc cagaccaact 240
gaagctgaat ctccagagta gggcctgtat ggtcatataa gctccacagg tgatctgcag 300

<210> 521
<211> 300
<212> DNA
<213> Homo sapiens

<400> 521
aattgatttg ctacatgctt aaaatgatag aggttgctca gcatttttgg agtacaaggg 60
ggtcagagag acatgtgatg aaaattacag ggcgagtaca gagatttaga agggaacggg 120
ttttaatgcg agtatctatg acagagtctt gctctgttgc ccatgctgga gtgtagcggt 180
gctcgctgca gcctcacatt caaaggctca agcaagcctt ccttggcctt tgaagtagct 240
gggaccacag gctcatgcca ccatccctgg gtcattttta aattttttgt agagagggtc 300

<210> 522
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(258)
<223> n = A,T,C or G

<400> 522
cagagcttag acatccaaaa ctaatcaatg ctgaggtggc taaataccta gccttttaca 60
tgtaaacctg tctgcaaaat tagctttttt aaaaaaaaaa aaaattgggg gggttatnca 120
tacattgaca acncntngat tnnngaaaat tnttnntttn ngcnangcga ttnccgtann 180
agaatggaac tgtagcnntn aagngctacn ngaaanaatt tnantanncn nanantnntn 240
tnnntntncn nnanantt 258

<210> 523
<211> 300
<212> DNA
<213> Homo sapiens

<400> 523
gttaactgca ctctgttcaa ggagggtttg aattggagac acagagcagt catcgttgat 60
ggcaaatttg aaatctagcc aggcacacat ttccagttcc ttcatcaggg cccagtccta 120
ctcgcagaat tgttctccac agtttgactt ggccctctgg gctttcagtt ttttcttctg 180
agtctttttc cttttccatt aaaaaattag cagagttttg cagtgattgg ctgtcttggc 240
ctgcattcta cttgttgtag gcccagttta tgttcttttct acttcagttc aaggtgttgt 300

<210> 524
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 524
gccagatccc agattcaaca gcagaaacgc ttgttgaatg gcttcagagt caaatgacaa 60
atggacacct accagggaac ggagatgtgt atcaagaaag gctggcacgt ttagaaaatg 120
ataaagaatc ccttgttctt caggtaagtg tnttnacnta cnnnttttnt nctnnntgnn 180
atatnttctt tgatttcttt ttttnntttn tctnttgctt tatntgnttt tattnttttt 240
tnctngagtt ttnttntttn tctnanntct gnnttanntn tnntttctct t 291

<210> 525
<211> 300
<212> DNA
<213> Homo sapiens

<400> 525
taaagacaaa aagatcttca tgattgtcat tccactccag gtcctggcaa atgtagccta 60
catcatcata gagtccaccg aggagggcac gactgaatat ggcttgtgga aggactctct 120
atttctggtc gacctgttgt gttgtggtgc catcctcttc ccagtggtgt ggtcaatcag 180
acatttacaa gaagcatcag caacagatgg aaaagctgct attaacttag caaagctgaa 240
acttttcaga cattattacg tcttgattgt gtgttacata tacttcacta ggatcattgc 300

<210> 526
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 526
tcagaatgaa acagaacaag tccattttta ttttctttca ctgcattgca tatggtactc 60
aagttgtgtt gtgtatagct aataggatgc cattcacatt ttatacatct tttttttttt 120
ttngnaangg nnnnccnnnt tngcccccng gncggnnggc cngggcccna tnnnggnnnn 180
nnggaatncc ccccnnccgg gttnangccn ttnnttngcc nnaacccccc nnngannngg 240
gaccanngn ccccnncnnt accccnggnn aantttttgg ttttt 285

<210> 527
<211> 300
<212> DNA
<213> Homo sapiens

<400> 527
gtccatgcta atttctagat tgatgtttta gccataaaaa tgcagtattt aataatattt 60
tattttccaa attatggaaa gcttcagaaa tagaaatatt caatataatt agtactctct 120
aatctttttt ctaggttgaa aaatctttgt tttgctttag gttagattat gttgaaacac 180
atctgtgttt cagatgtgtt cagagctgag gtctcagctg aggctccact gaagcaggat 240
tcacttccaa aataacagag ttgttgccaa tattcagttc gtagcaaact actggaacaa 300

<210> 528
<211> 300
<212> DNA
<213> Homo sapiens

<400> 528
aataaataaa tgggacctgg ttaaatagct tctctacagc aaaagaaata attgtcaaaa 60
taaacagaca acccacagaa cgggagaaga taagacttgt aaactgtgca tgtgacaaag 120

aactagtatt cagaagctac agggaactca aatcagcaag aaaaataaat aatcccacca 180
aaaagtgggc aaatgacatg aatagacatt tctcaaaaga agatatgcaa atggtcgaga 240
aacatatgaa aaaatgttca acatccctaa tcattagaga aatgcaaatt aaaaccacag 300

<210> 529
<211> 300
<212> DNA
<213> Homo sapiens

<400> 529
gggtgagata ccacgcatga aacccacgtg gactgcaact caaagtgtgg tccttggccc 60
agcagcattt gtcagaaagg cagaatctca cagggccagg actagggtgg cacaggtgag 120
gcatcccggg cacagcattt aaggaggccc tcactgtcag ggtcgtacag ggcacctcct 180
cggctcaccc taatcccagc tctgaggtcc acccagacct ttctgagtca gagtctgcct 240
tttaacaaga ctctcagcga tatgtatgcc cagaggagtg taagaagatc tggccttaga 300

<210> 530
<211> 291
<212> DNA
<213> Homo sapiens

<400> 530
gaggaacaag aagcaccact acagggagct cccagttgag gtgcgacagg cactcggcca 60
agtccctgat ggcttcgtcc agtacttcac aaaccgcttc ccacggctgc tcctccacac 120
gcaccgagcc atgaggagct gcgcctctga gagcctcttc ctgccctact acccgccaga 180
ctcagaggcc aggaggccat gccctggggc cacagggagg tgaggtgggc tggatgccac 240
acagatggtc tccgtgctgg ctcactgaat agctgagcct gtggctggcc t 291

<210> 531
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 531
cttaaagatg cataacaaag tcaggggatt cattctatat gatatccaat gagtatggca 60
ttggcataag gctagacaaa cagggcagga cagagggagt gaatgaacag acacacatat 120
atttggacac ttgaatgtgg ataaaagagg caatgtagga aggaagggaa aagatagtct 180
tttcaataga aggaactgga tcanagagat attcaatgga ananaagaac gaaattttac 240
ctnttnntna nnacntangn aagtnaatta ttacttac 278

<210> 532
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(258)
<223> n = A,T,C or G

<400> 532

caaacttaaa ataaaatccc cactatgcac attttatttc tccaacatac tcggattcta 60
ccctagcatc acacacacac acacacacac agtattttga cctagggatt gactatgtaa 120
cttaatttgg agacaattga catataaaaa tattgagatt tccaactcat gaacataata 180
tatctctcta cttatgtcgt gtttgatttc ttttagcaat gtttgcagtg tacaggtttt 240
acnccttttg gnaggnnt 258

<210> 533
<211> 288
<212> DNA
<213> Homo sapiens

<400> 533
tggaaaagaa aataaaattg gcagctcact cttctgtcat ttgatcttct gtcatttgct 60
tttctgagtt ttggccctcc tgtacaatct atctggtcgg gtttactttt ctccatcttc 120
aagcagggtg tgtcttcaag catgcatgtc tgtgttttga ttcggaattg atagttataa 180
tagaagcatg agctgctggg aaattatacc tcctgatttg tgtggtttta tttgttcatc 240
ttgcaggttt gagtagtttt tggtggatgt gttgggagat atgaacgc 288

<210> 534
<211> 223
<212> DNA
<213> Homo sapiens

<400> 534
aagacacata gtggatctgt atggcgtgtg acatgggccc atcctgaatt tgggcaggtt 60
ttggcttcct gttcttttga ccgaacagct gctgtatggg aagaaatagt aggagaatca 120
aatgataaac tgcgaggaca gagccactgg gttaaaagga caactctggt ggatagcaga 180
acatctgtta ctgatgtgaa gtttgctccc aagcacatgg gtc 223

<210> 535
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

<400> 535
gccacatctg ccagagcctg gagtctgcga aggccgggac ccggttcccc ggcccacagt 60
gggggtgtgc aaacccgnna gaactggtta agatntnttt nnttcgctgt tntgnttttt 120
nnnccgagct tatctnannt ntatanttgg cnatntttnn nnctcttgtn tnanatttan 180
ntatcttttt cntcttcnnn tnttttntnc tcnantnttt atnttttttn tcttnatnnt 240
ttctaantgc ctntntcant ttntt 265

<210> 536
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 536
cttttttgta tttttacgct ctgctgtcca tgacatattt ctaacacctt tatgattatt 60
gttcctgctt gtaaaagggc tgatatttac atgagtgcaa ggcaggaaga aaaggtagct 120
gtgccagcca cttctggcaa gcagttctcc caccttagcc tcccaagtag ctgagaccat 180
aggcatgaga tttctcaaaa ttcctcccag caggctttca cttagtttca ttgttgagaa 240
ctgtgacagg tccatctcta gctgcaaagg aggctgagaa agngaacaca gcagcctcct 300

<210> 537
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

<400> 537
catttatata tatactatat atttcatata tgtatttcag gaatttatag accacacatt 60
catatataga tacagatata tatatgngng tgtgngnata tacncatann tantnaagcg 120
tatatncngt agtatacatn atncacncat ananacgtat atatgnaaac gnatatanac 180
ncgtnanata attatatgtt atatntacng tatntacgta tacnncatat gcacntgnta 240
tncgtntntn tgnntntnt 259

<210> 538
<211> 300
<212> DNA
<213> Homo sapiens

<400> 538
gcctgctgag cgtgatgact tcatcctggg gattctcaac tgcgtcttca ttgtgtacta 60
cctgttggag atgctgctca aggtctttgc cctgggcctg cgagggtacc tgtcctaccc 120
cagcaacgtg tttgacgggc tcctcaccgt tgtcctgctg gttttggaga tctcaactct 180
ggctgtgtac cgattgccac acccaggctg gaggccggag atggtgggcc tgctgtcgct 240
gtgggacatg acccgcatgc tgaacatgct catcgtgttc cgcttcctgc gtatcatccc 300

<210> 539
<211> 300
<212> DNA
<213> Homo sapiens

<400> 539
gtggcaagtt ggttatatgg aaagtctctg ttcactcact tgggtgaata acagtaaata 60
cctttctatt gttttcactt tacattaggc catgagtatt tgtgcctgtg gctgcagttt 120
gtgttagttt cctaccccag gtatctcctg cagcatgcag cttcagtcct accagaccct 180
caaaacttaa aagctaacac tattactagg gaggattttg caggaaaatg gagaaagggt 240
tacacacaaa aaaggttaaa ctactctatg catgtttctg caatgtgtta tctcaagaat 300

<210> 540
<211> 300
<212> DNA
<213> Homo sapiens

<400> 540
ggttcacact ccatttccca gtttctgttg acccccacct tccagtgttg gacaggatgg 60
agggggaca cttgcttagg ggctctcctg ggccccacac cagtgcccac cccaaatctg 120

gtcgtctcct ccccccatgc acagcacaag ctaagggctg ccctctgccc acacgctgcg 180
ttcactgcca atgctgtact cacctccatc accctccaac tttggggccc atgtcttcct 240
tgggccaagg tctcatgggg gctagggcca agttgggggc ccaggaggcg gggagggaag 300

<210> 541
<211> 300
<212> DNA
<213> Homo sapiens

<400> 541
gtccattctt ataaagggaa cttctagcaa acctgcccag ccctttccct ggagggaaac 60
attatctgta ttatcctaaa gagcaaacaa atctgctctt ggttccaaat agagacactt 120
tatctttcaa gacaatgcct atgcaaatat cttagaaaag atagtctagg agaaacaagc 180
tgccacaaga actgcaaaaa tgcaaacagc ctataaagaa ttgtctccca acatattgat 240
cttttatatt attctcttta tgcgttgtca taaaaagttg agagactgca atcctgcacc 300

<210> 542
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 542
gtgagcctag ggacccattt ctcctccttt gacagggaca tcagtggagc cttctcagac 60
ccacaggggt ccttggggaa ttttgacatg gttatttaag gaaccttgcc tagaagtccc 120
aacttgcagt tccccatcga cgggaaggct tggactccaa gatgattata aaggaatatc 180
ggattcctct gccaatgacc gtggaggagt accgcatcgc catctgtaca tgatacagaa 240
gaagagccgt aacgagacat atggcgaagg cagnggngtg gagatcctgn ataaccg 297

<210> 543
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

<400> 543
aggacgaccg ctacttgcac ttcctggaag gcacccggga ctatgagtgg ctggaagcac 60
tgcttatgaa tcagacggtg atgtcaaaaa accttttctg gctcaggcgc agaccccaag 120
aagctgctcg ggaagccctg tgcatggaca ggtacatgtt gctgcaccca gactttctcc 180
gatacntnaa nancagnntt ttgaggcnta ttancctgga nggtanncat catcnngana 240
tannttccna tttctgangt cctnactgcg g 271

<210> 544
<211> 300
<212> DNA
<213> Homo sapiens

<400> 544

atggaattta cttttcttct agactttctt ttgcaatgga acgttgcttt gtgtgtgatt 60
tggtggaata acaaccaata cacaatgagc agtctaatgt gtagtcattt ggtgctctgt 120
gttcaagtgt gaaatctcta tcagtgccca atagtaagcc agggtctgct tttcatatag 180
aaaatggttg ctgacagaag aagatgtggc cgtactccag ggtggttctc tatggaggct 240
tgtgagagtc tctatacagc atccatgact gccaccggca cttccaatac cattagttat 300

<210> 545
<211> 300
<212> DNA
<213> Homo sapiens

<400> 545
ctccatcaag gcatttctct tcattggata ttgcagtctg cacaattgag agagccaatg 60
gtctgatcaa tcgcctcata gaggaaaata agatggatct gttaggaatg gtggttgtgg 120
atgaattaca tatgctggga gactctcacc gagggtatct gctggaactt ttgctgacca 180
agatttgcta tattactcgg aaatcagcat cttgtcaggc agatctagcc agttctctgt 240
ctaatgctgt gcaaatcgtt gggatgagtg ctacccttcc taatttggag cttgtggctt 300

<210> 546
<211> 300
<212> DNA
<213> Homo sapiens

<400> 546
cagaaatcag catgcatgaa ttaatcgaaa tacaatgcat attaaacaat gcaattacta 60
tagtctaaat caccaaactg ataacccata caaaagtagc tcttacaact ttttttgaga 120
atatttcccc taaaaaattc cagtgatcat cccaacctac aaaactagat tattttacta 180
gtatcatctt ctctttaccc ctcttctccc caccaacact ccctccaaca cacacacact 240
tctccttaag agaaacggct tcctcaagaa attatctgat ggttcagtag cagttggagt 300

<210> 547
<211> 300
<212> DNA
<213> Homo sapiens

<400> 547
aagaaggtgg gggcctgcca cggccccagg accccactgc tgggcaccga ccagtgtgcc 60
ctgggcccaa gcttctggtg caggagccag gaggccgcca agctgtgcaa cgctgtgcaa 120
cactgccaga agcatgtatg gaaagagatg cacctccacg ctggggaaca cgcgtgaccg 180
tggctgccag agacccagag cctgctagcg aggcccatga ggtgggtgct ttccccatcc 240
ccatttcaca aatgaaaaac tgaagctctg aggagggagg ctgggaagga gcagagctga 300

<210> 548
<211> 293
<212> DNA
<213> Homo sapiens

<400> 548
cctatgattc attcattcaa taagctttta ctgcataaac tttacatcca gcactgtagt 60
taagtaccca aaattgaata gaaataatgg cttttgaaaa ttgcccaaag caggctggga 120
ttacaggcgt gaaccactgc acccggccca gtactgcatc ttaacagcca agccatttta 180
ttctacttta taactgatag acttgatacc atccatctct ttaggttaca gaggataatt 240
tgaagagaaa tgttactgta gaatatatag ttctgtactt ttttttttta aga 293

<210> 549
<211> 266

<212> DNA
<213> Homo sapiens

<400> 549
cgcgacgcac attgatggag cgtatgtcca ggcgccggtg caccgcaagg agcaaaacag 60
acacagttct tggtcctagg gctcacgtcc cggggcgaag aggatcctcc ataaacgatc 120
agccatagca gctgtgattg gacaagagac tgatttcagt gactttctcc tgataagaga 180
ccaccgacca gctgaccatg ccgaccagct gacccgttaa tagagagaga tgatgcacct 240
gcatgccttt gtgtcctgaa aatgac 266

<210> 550
<211> 300
<212> DNA
<213> Homo sapiens

<400> 550
gcttggggag agtgatggta gaaggacctc ccaggagggc cctggagaca gtgtgaaatt 60
cgagggaggt gaagatgctt ctgtggctgt ggagtggtcc ggggatggca gtgggacccct 120
gcagaggagt ggctctcttg gcaagatccg ggatgtgctc cgcagaagca gtgaactctt 180
ggtgaggaag ctccagggga ctgagcctcg gccctccagc agcaacatga agcgagcagc 240
ctccttgaac tatctgaacc aacctagtgc agcacccctc caggtctccc ggggcctcag 300

<210> 551
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

<400> 551
ggaaagtgga gaggtctctg ctgcgaagag aggcactttc agggactttc cttcagctgt 60
ctcttcctct gggaatgagc tactcaaggc tgaccccctcc tcctgttgct tgaaataatg 120
atgatatata ggttggattn ngnagtntgt nacctccngc tcaatctcct nctncntctc 180
tacctnnnnt cttctccntn ctncctnnct tcgntnnnnc ttnncnctcc cncntnttac 240
tctnacannt ccntntncnc accctcactc t 271

<210> 552
<211> 300
<212> DNA
<213> Homo sapiens

<400> 552
ccggaggctg gtgctgagcc agtggctggg catcctagcc accatcgcgg ggctggtggt 60
cgtgggcctg gctgacctcc tgagcaagca cgacagtcag cacaagctca gcgaagtgat 120
cacaggggac ctgttgatca tcatggccca gatcatcgtt gccatccaga tggtgctaga 180
ggagaagttc gtctacaaac acaatgtgca cccactgcgg gcagttggca ctgagggcct 240
ctttggcttt gtgatcctct ccctgctgct ggtgcccatg tactacatcc ccgccggctc 300

<210> 553
<211> 224
<212> DNA
<213> Homo sapiens

<400> 553
cggatatcct ctccctcatc aaacttttct ccaccaactt tagcatctgg ttgccaccct 60
ccaaaatggc cccagtgatc ccatctccta ataagtacat gtctgtgtgg tcctctccca 120
cactgcatag gaatggctta cgtaaccaat aggtagttga ggatgtgatg cagtctgact 180
tttgaggcta agttgtaaag aaagacactg tgtcttcctc cttg 224

<210> 554
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 554
cttgagtcta ggagttcaag accagccttg gcaacgtggc taaaccccat tgctacaaaa 60
atatatatat acaaaaaatt agctgggagc ggttggcaca tgcctgtagt cccaactact 120
caggaagccg aggtgagaga atcnnnnggn nncnnnnntn tactntnang ttaaanaann 180
ggntttannt nnnaaattan ctggaagcgg ntgncanatg cctggngncc caantactct 240
ggaggccnnn gnggnaaaat tnctggaa 268

<210> 555
<211> 300
<212> DNA
<213> Homo sapiens

<400> 555
caaatccaat agcaagctct gttttctaat atagtaaatg tctttatagt aatagtgagt 60
aatcattaat tctaaagata gaattattat tacaataaac aaactttagt cacatattgg 120
cagtttttct atttcaaaca cagcaccaga gatcagagtc tacttgaaac ttacatttgt 180
gttatttaac aatttttctg tatctttttc attggtgttt tgttttgttt atcttttgtt 240
tttgtttctt tggtttggtt tgtttttgtt ttgtttttttg agatacgatc tctgtcacac 300

<210> 556
<211> 300
<212> DNA
<213> Homo sapiens

<400> 556
gctcagtgct ggcatgttga cctggtgttg tcagtgagtc tgtggatcca gggtcagtgc 60
tggtatgttt agctgacatt ggcagtgagt ccatggatcc aggctcagtg ctggtatgtt 120
gacctggtgt tgtcagtgag tctgtggatc caggctcagt gctggtatgt tgacctagca 180
ttggcactga gtctgtggat tcaggctcag tgctggtatg ttgacctgac attagcagtg 240
agtctgtgga tccaggctca gttccacaga ggttgtataa acatggtctc aggtgggttc 300

<210> 557
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

<400> 557
cgtgttggcc acgttggtct tgaactcttg acctcaggcc tcccaaggtg ctgggattac 60
aggcgtgagc caccgagtct ggccttggca gttatttttc attacttttt gttttttttg 120
gacnaggtct ggntntgtan nccaggctgg natgnagntn ntgnnatnac agatnnntgn 180
nnggntcaac nnggnaagan nngatgnggn ttcncggggn nntngnnann aantngtnan 240
tnnnnnnaan gantacatga agntag 266

<210> 558
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 558
aaaaatacaa aaattagcca ggcatggtgg cacgtgcctg taatcccagc tactcgggag 60
gctgaggcag gagaatcgct tgaacctggg aggtggaggt tgcagtgggc tgagatcacg 120
ccattgcact ccagcctggg cgacagagtg agactctgtc tcaaaaaaaa aaaattatga 180
aaaaagttat gggattaaag aaagtcagga taaaaatttt aaaaagcagg ccantgtcag 240
caaagcctgg aaaattgggg ccggaggctc ngccccccatc atgngcctgc cacccccttcc 300

<210> 559
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

<400> 559
gaggcatcca aaggctcctg agacacatgg gtgctattgg ggttggnggg gangtgtgtg 60
aggctgnaan tgtnctctnt tattaggcta tntctanctt nccattnact ganttcactc 120
aanactgcnn natnnctatn aannantaan ntaaaccntc ttaggtcant antantnctn 180
nantganttt catcantatn cctnnacnng ttncttngtt anncagatan cnttaacntt 240
attnnacnga gaaantctct tctaa 265

<210> 560
<211> 300
<212> DNA
<213> Homo sapiens

<400> 560
agaagaaagc attagcaacc ttgatgccat gacaatagaa actatccaaa ataaggcaca 60
gagaagaaag tggaaaaaaa ggcaaaaagg aaaacagagc aacagataat gtgagacaag 120
gtcagatagt ctttatgtat gtgtaattgg agtccccagg agatgtgaga ggaaaaagag 180
ttgaaacaat catagacaaa atatttccac gtttgatgaa aactatatta gttgtgtatt 240
gctacctaac aagttattcc aaaaatttag tggcttaaac aaaacatcca ttatctccca 300

<210> 561
<211> 300
<212> DNA

<213> Homo sapiens

<400> 561
gccacctact gcgtcttggt catggagaag aagagctgga gacagagaaa gatttcagca 60
gaatcctcag gatggattta gccgactaaa acgatggatt atgattggcg atcatcacca 120
gttacctcca gttattaaga acatggcctt tcaaaagtac tcaaacatgg agcagtctct 180
cttcactcgc tttgttcgcg ttggagttcc gactgttgac cttgatgctc aagggagagc 240
cagagcaagc ttgtgcaacc tctacaactg gcgatacaag aatctaggaa acttacccca 300

<210> 562
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 562
attaaaaaga aagctttatg tagttatgca tgtcagtttg ctatttaaaa tgtgtgacag 60
tgtttgncat attaagagtg aatttggcag gaattcccaa gatggacatt gtgcttttaa 120
actagaactt gtaagacatt atgtgaatat cccttgccaa ttttttttat aataagaaaa 180
catctgacta aagtcaaaga atgatttctt atggtttatt ttgatgaaag ttcttttaac 240
atgtcttgaa tgtacacata aaggaatcca aagctttcca ttctaactta atctttgtga 300

<210> 563
<211> 300
<212> DNA
<213> Homo sapiens

<400> 563
gtgacattgt gattgcaaaa agcccaagtg atccaaaatc aaatatttgt aaaagagtaa 60
ttggtttgga aggagacaaa atcctcacca ctagtccatc agatttcttt aaaagccata 120
gttatactat agtgataaaa acctgtgcta cacatccatt tctcagcaac ggctcctagg 180
ataatcaatc atggcatact gctaatgcct tgattgcagc tgatatggag gaaatatgtt 240
tactcttttg ctaaagtgaa gttcactgcg gaggtgccaa tgggtcatgt ttggttagaa 300

<210> 564
<211> 300
<212> DNA
<213> Homo sapiens

<400> 564
gcccagatga ccttttcagg ggtaacaccc cagctgcttg agagaacagt gttgctgctg 60
gcagagatgc attccagaga tgcactccgc tctggaactc actctcagcc acagggagct 120
gcatgcacca caggggcaat gcacctttgc aggggtacct tctggcccca acccttgact 180
caacggggac aactccagaa ggtcattcca gatccagaga tccccatcga actgaaggat 240
cactgggttg cagacacatt gcaggtcagc ttcttcctct gcccagtcct gcctcactcc 300

<210> 565
<211> 289
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 565
atcatgactc actgtagcct tgacttcttg ggctcaggcg atcctcccac ctcagcctcc 60
tgcatagctg ggactacagg catgtgccac cacacctggc taatttttgt attttttttt 120
ttnggnaaaa acncggtttt gccgngtngc cnaggntggn ctnnanctcn ngggctaaan 180
caatcnattc acngnagcct ntnaaagggc tggnatnacn ggcntgaccc cntgcantng 240
gccgacnttc aattttnatg aataaaacnt acntngnaaa ntaagggggg 289

<210> 566
<211> 300
<212> DNA
<213> Homo sapiens

<400> 566
gttttataag tggagtcttc agggaatgat tatttgggaa ttaggctttg aaagagcctc 60
agctgtgttc cacccccctcc aagaattcag gctgttattt ttcaaggctg ccacagaggt 120
ggggagtgga aaatgagact agtaagttaa aatactacaa agcttgctgt tcttacagaa 180
attcagccat ttttcttgaa taaacacttc catggattgc tgcaagcctt gattaattgc 240
cagaatctga aatggttgct tttgacagtt tttttcccat aggtttttgt tgcttttatg 300

<210> 567
<211> 299
<212> DNA
<213> Homo sapiens

<400> 567
tttttttttt ccaattctgt tcctttcagc ttaggaacct tagtacatgc agtttcttct 60
acctgaaggc ttcctcatcc ctttacctga caccacactc tgactcaggg ccttcaaact 120
aactaaagcc taatcttctg ggcaaagttt gctttttaat tttttttttca acaattgctc 180
aaagagtagt tgttttcata attaatccaa aattgtccta agaaaggcca tcatcacagg 240
gggcaaagtt taacatcatt tcctgaaaag ggttatcata ccccccaaat aaattaggt 299

<210> 568
<211> 300
<212> DNA
<213> Homo sapiens

<400> 568
ctaatgtgct ataaattctt ctgagcttgc tgtggctaat ttattaattt aaaaagtatt 60
ttttgtcttt cttaggcctc cttgaatcta gtcactctag agatagaata cacaatcttg 120
tcctgatgtt tttacttgca actcacaatc ttgtttggtg gtttagttgc aggtttcaga 180
gattagaccg tatatatcta aatgctggga tcatgcctaa tccacaacta aatatcaaag 240
cacttctctt tggcctcttt tcaagctgaa ggcctgctga cccagggtga taagatcact 300

<210> 569
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 569
gccctggatg gaggacaaga gtttggtagt caatggcaac agtaccattc aaaaatagat 60
gatctgatcg acaacagtgt aaaagaaatc atttcactgt tagtttcaaa gtttgtttca 120
gtgttggaag gcntgtngtc tannctgtna aggttttatt nnntnacttt nttatctnnc 180
ntnttttann tcnactntta aattaatnnt ttttnttgtt atttncatat tttttctnt 240
tattttttt cntnttttt tttttnttnt nttgnntttt tnatantttt aat 293

<210> 570
<211> 300
<212> DNA
<213> Homo sapiens

<400> 570
gttctccctt atctgatgct cactgtggcc ttgggcagcc tggcatcgag aattctcagc 60
atgttcactc ttgagttctg tgcctgcatc acacagcaat ggaacagtcc caaaagattc 120
ttaagggtgg ggaaaggcac taagaaaaga tgaacctgca gtccctgtta taccatctgg 180
tctaattgat actactgttg tcaagcaaaa ggagctctct ccctgaggca ctggaagcca 240
atattttgac accaggtttt tgagaaagaa aagtttttta ttgtaagttg actcacaaga 300

<210> 571
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(276)
<223> n = A,T,C or G

<400> 571
gggtggcaag ccacccaggt gccgaggcaa gagaccgaga gcacgagctg ttccagtgta 60
ataaaatata taaaataaca agagttatac tgatatagct catagatatg attatatata 120
aataccatta atcattagtt tgtagtaatt actctttatt caaatattat aatnntnctc 180
actctncaat catnacctan atanngctng natttgnaan natnntanct gtgnntacat 240
ggtgttaact gtttanttcc nannattcnt tttttt 276

<210> 572
<211> 300
<212> DNA
<213> Homo sapiens

<400> 572
gaaagattga agaagttcat cttcctgtag aaaaagtaga tgttatcata tctgagtgga 60
tgggctattt tcttctgttt gagtctatgt tagattctgt cctttatgca aagaacaaat 120
acttggcaaa aggaggctcg gtctaccctg acatttgcac tatcagcctt gtagcagtga 180
gtgatgtgaa taaacatgct gatagaattg ctttttggga tgatgtctat ggcttcaaga 240
tgtcctgcat gaagaaagca gttattccag aagctgttgt ggaagtttta gatccgaaga 300

<210> 573
<211> 257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(257)

<223> n = A,T,C or G

<400> 573
acaacagaac ccgaagtgcc caggatgata tttttacaca agctgtaaat atggcaggat 60
tgccagcagt gagtatccct gttgcactct caaaccaagg gttgccaata ggactacagt 120
ttattggacg tgcgttttgt gaccagcagc ttcttacagt agccaaatgg tttgaataac 180
aagtacagtt tcctgttatt cannttcttn nactcntgga tgattgttna nnttnccttg 240
ttnntngnaa gttncct 257

<210> 574
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 574
attacagcca ccttttgggt ttcatttaat tttggtagtg ttaatgtcta ttaatgtgat 60
ttttttttta acctttctcc caataggttg atgacaacaa gaaactagga gaatggttag 120
gcctttgnaa aattnacaga tagggtnnnc cccntannct ggtcncntgn nttnntcntt 180
cctatcnntt tnanatgngg nancncnntn ctntacgttn cccnttnttn ntnantnntn 240
cntattactn tccncnttnc ncnnntncnc nttctttgna nnnccccntc tccctctcgt 300

<210> 575
<211> 300
<212> DNA
<213> Homo sapiens

<400> 575
atcaacgcag gcatgtacat cctgagccct gcagtgctgc ggcgcatcca gctgcagcct 60
acgtccattg agaaggaggt cttccccatt atggccaagg aggggcagct atatgccatg 120
gagttacagg gcttctggat ggacattggg cagcccaagg acttcctcac tggcatgtgc 180
ctcttcctgc agtcactgag gcagaagcag cctgagcggc tgtgctcagg ccctggcatt 240
gtgggcaacg tgctggtgga cccaagtgcc cgcatcggcc agaactgcag cattggcccc 300

<210> 576
<211> 300
<212> DNA
<213> Homo sapiens

<400> 576
atgaccagag aggaaggaga agatgcagtc cagtttgcta acagggttaa gtctgctatt 60
gctatacaag gaggcctgac tgaacttccc tgggatggag gactaaagag agcaaaggtg 120
aaggacatct ttaaggaaga gcagcagaaa aattacagca agatgattgt gggcaatgga 180
tctctcagct aagaggacgg atgacagcct ttagatctag aactagccct tagaaatgga 240
atggcttttt tgttttgttt tgttttattg ttttgttttt attattgtta atcttttcta 300

<210> 577
<211> 296
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 577
aagattgggg taatactgaa tgtatagttt ttagggggtg aaatttagct gtataaatca 60
taggctgttg acatttgtga ttacttcatt gctaagtttt acatatagga gtcttcatac 120
tttgtttcag ggacagaatg atgctgctga aattggaaca agaaatttta gatttcattg 180
gtagtaatga gtnagtcctg acnttnnnna gatnntanat tgggntccca ttctccttgn 240
cttctancnt ggantntnnt tttntttngn ttnnncctnt nnntttnttt ttgctc 296

<210> 578
<211> 300
<212> DNA
<213> Homo sapiens

<400> 578
ggcttctgca accaggaccg gaggacactc ccgggggggc agcctccccc ccgggtgttt 60
ctggccgtgt ttgtggaaca gcctactccg tttctgcccc gcttcctgca gcggctgcta 120
ctcctggact atccccccga cagggtcacc cttttcctgc acaacaacga ggtcttccat 180
gaaccccaca tcgctgactc ctggccgcag ctccaggacc acttctcagc tgtgaagctc 240
gtggggccgg aggaggctct gagcccaggc gaggccaggg acatggccat ggacctgtgt 300

<210> 579
<211> 300
<212> DNA
<213> Homo sapiens

<400> 579
tcctattgta aaatcacttg ctaaggctca tgagaggcta gaagattcca aactagaagc 60
tgtcagtgac aataacttgg aattagtcaa tgaaattctt gaagacatca ctcctctaat 120
aaatgtggat gaaaatgtgg cagaattggt tggtatactc aaagaacctc acttccagtc 180
actgttggag gcccatgata ttgtggcatc aaagtgttat gattcacctc catcaagccc 240
agaaatgaat aattcttcta tcaataatca gttattacca gtagatgcca ttcgtattct 300

<210> 580
<211> 300
<212> DNA
<213> Homo sapiens

<400> 580
ccctatctta tgagaaaagt aactttgaaa ggactaatac atcctgttct tagcttctgc 60
ttccttcagg ccttctctat gaagccagcc tattctgctc agcgctttgg aacactgatt 120
ctatttcatg gaccgaagca ttgcccaatt gtagaattgc aataaagcca actgagatct 180
ttaaattggc tataattcat cctttggcaa tacagtaaaa aaaaaaaatt ctcacaattc 240
tgtaaaaggg tatgagatat acaataaaag acaccccccac cctctgcaat ctaccactca 300

<210> 581
<211> 300
<212> DNA
<213> Homo sapiens

<400> 581
caaggtcatc gccaaggtgt gattggaaaa attcaaaaaa ttgcaacctc aggcataaat 60
gggttaagga catcccaagc ccaagtggta cgtgcctcac tcagaactga cgggccgagt 120
tctatctagg tgtgtcttcc agaacctgtt tacggctaac tggataactg agagacttgt 180

catttctaaa gacatttaag ttgctccagg gatttctgaa aaaagacaca ggcttcttcc 240
tagagccagc cctatataac atgcccacaa gggcaacagt tatcacagtt catacacacc 300

<210> 582
<211> 300
<212> DNA
<213> Homo sapiens

<400> 582
ccaagacctc cacggccttg tgtcaagaaa tctccacaaa gtgacagtga atgatggagg 60
gggagttctc agagtcatta cagctgggga gggtgcattg cctcatgaat tcttggaagg 120
tgtggaggga gttgcaggtg gttttatata tactattcag gaaggtgatg ctctcttaca 180
caaccttcat tctcgccctc aaagacttat tgatcatata aggaatctcc atgaggaaga 240
tgccttactg aaggaggaaa gcagcatcta tgatgatatt gtttttgtgg atgttgtcga 300

<210> 583
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 583
ctgcctcagc ctcctgagta cgctgggatt acaggcgtgc accaccatgc ctggctaatt 60
tttgtatttt tagtagagat ggggtttcac aatgttgccc aggttggtct cgaaccgctg 120
accttaagcg atccgcctgc cttggcctcc ccaaggtgct ggaattacag gcatgagcca 180
ccgtgcccgg ctgacttttt tttatcttat ttctttgtga cacggggatg tgctcaanct 240
tccaggctgg antgcaatgg cnncncatgg ntcgntgacn tcaatctgct g 291

<210> 584
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(284)
<223> n = A,T,C or G

<400> 584
agagtgagaa cccctctgct acaaaaaata gaaaaaccag ctggggcgtg gtcgcgctca 60
tgtatagacc agctgctgga gagactgagc tgggaggatg gcttgagccc aggaggccaa 120
tnntgtnggg agctgnggtc gtacnactgt actctaatct ggncnactcg ancacgannt 180
cntntcncat nactnntntc ngtgtntttn gngnttttcc ntnnnttggt ntnctnttnc 240
attgttcttn ctntcnctna ttgtganang ntctnttcct cctt 284

<210> 585
<211> 300
<212> DNA
<213> Homo sapiens

<400> 585
gcagtcaggc agtgactgcc ttcggctttt tttctgctga ctaagatctc ctatagagag 60

ctacaacaat gcccaaaaga aaggctgcag gtcaaggtga tatgaggcag gagccaaaga 120
gaagatctgc caggttgtct gctatgcttg tgccagttac accagaagtg aagcctaaaa 180
gaacatcaag ttcaaggaaa atgaagacaa aaagtgatat gatggaagaa aacatagata 240
caagtgccca agcagttgct gaaaccaagc aagaagcagt tgttgaagaa gactacaatg 300

<210> 586
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 586
ataagaaatt gtcttgccta agattaaata tatatggata tttttcctaa gaaaagtttt 60
agaaaagact gatgagtgta tttctatgta attggaatat atttaaggtc atnccgnntg 120
ggnnnnanat nttctnctca cactcagggn cntngggggan naacnccngt tggnggaaga 180
nnnccnngnn cnacntgtgc agcanctatc ccttttcctc acggcngntc tccnngnacc 240
tcctcgcnnt nttnnngcnt cccctggngn nnctctgncn ncctcccnnc attcctga 298

<210> 587
<211> 300
<212> DNA
<213> Homo sapiens

<400> 587
ggaagacaca ataattttaa attgcctaca gcaggggttg gcaaatagtg gtgcaagggc 60
cacatctggc tagcagccta tttttgagaa tgaagtttta tgagaaccca cacatctgtt 120
tgtagattgc tatggctgcc tttgagttac agcagtggag ctgagtagct gtgacagaga 180
ctatatgacc tacaaaaact aaaaatattg gtcctttaca gaaaaagttg tctgacccct 240
ggcctactat ttcaaatcct gggtaggtcc tccacgtcag ttcttcatgg aactgtattg 300

<210> 588
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)
<223> n = A,T,C or G

<400> 588
gtccagcatt atggagtgaa cgtcagctcc aggaagcaga gacttctggc cctttgttca 60
ccatttcccc agaacctagg gtggtgactc acctataagt gctcaaaaaa catgtggcga 120
atggaggacc agagctaggc tctgaatgag gcctcctgga tctcacgcag gggatggaga 180
gtaaggacca gcccctctac ctcatgcttt cttcctgctg nctcgtanga gcccacatnc 240
ttntgtcctg agcangncan annctgnagn nctgccttga caggatggct 290

<210> 589
<211> 300
<212> DNA
<213> Homo sapiens

<400> 589
ggaaatcatg aaggaaggca agcagtttca ccggatagtg acataccatc gccaccttta 60
tgatatccac gtgactgttc agccaaagta taaacacgtt tatcctaaga actctgtagt 120
aagaaaaagc catttgtagg gtgcttaagc ttgtttgtaa aatggcctac ttgaagtcct 180
catgaataat gagggttgac tttcatttgc ttgaaactta aggaagtttg tgcctataaa 240
agttactgca attcagtatt tctttatttt tttcgagaca gagtctcaat ctgtcgccca 300

<210> 590
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 590
ggcgggcgaa tgtagtctca gcctcccgag tagctgcgac tacaggcgag tgcctccatg 60
cccagctaat tttttgnatt tttagngnan nnggcgnnca atcctgttag aaactgttgg 120
agctgcgccg aggcactgac cctgccaccc tctactgcat taacttcanc cacgactcct 180
ccttcctctg cgcttccagt gataagggta ctgtccatat ctttgctctc aaggataccc 240
gtcttaaccg ccgntccgng ctngctcncg tgggcaangt ggggctatga ttggca 296

<210> 591
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(279)
<223> n = A,T,C or G

<400> 591
ggcaagccct ggatgaaaac atggacctct tggaaggtat aactggcttt gaagactctg 60
tccgaaagtt tatctgccat gttgggggca tcanttanna tgccntngnc cgttgactgn 120
tgntntnaga ggctctgngt tcctnnaggg nnanctcntt atanantctt gtntctnngn 180
tcttatcagc annntgctnt ataatctttnt gtacctnccc ntttggtnna gnactnnnnc 240
canataagna ttgatgccta nctctcntat nnttattgc 279

<210> 592
<211> 300
<212> DNA
<213> Homo sapiens

<400> 592
gtgaaagcgg ggcctcacga tccttctgac cttttgggtt ttaagcagga ggtgtcagaa 60
aagttaccac aggggccaga acttccacct tgtggtcaat tgtttcaagt gtgtgaccat 120
acttgtcaag aaagtcaagt cttaccagat aactgaaaaa cagctccaag ttctactggc 180
ctatgctgag gaggacattt atgatacttc aagacaagcc actgcctttg gtcttctgaa 240
ggcaatttta tcaagaaagc tgttggtccc agaaatcgat gaggtcatgc ggaaagtatc 300

<210> 593
<211> 300
<212> DNA

<213> Homo sapiens

<400> 593

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gtcggctctt cctatcattg tgaagcagaa ttcaccaagc gttggattgt tcacccacta      60
atagggaacg agagccgaac agctgaagag agttcactga ctccccagcc ccaggtgggc     120
cttgtgcaca tcatgaccag ttttgaagat gctgacacag aagagacagt aacttgtctc     180
cagatgacgg tttaccatcc tggccagttg cagtgtggaa tatttcagtc aataagtttt     240
aacagagaga aactcccttc cagcgaagtg gtgaaatttg gccgaaattc caacatctgt     300
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<210> 594
<211> 300
<212> DNA
<213> Homo sapiens

<400> 594

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ggaagaaaag tggcagcatg aacagtaaga gaatcattac aggctgggtg cagtggctcg      60
cgcctgtaat cccagcactt tggtaggctg aggccaggag tttgagacca gcctgggcaa     120
catggtgaaa ccctgtcctt acaaaaaagt taaaaattag ccgggatgtg ataccttgtg     180
cctgtggtcc cagctacgtg ggaagctgcg gtggaaggat tgcttgagcc tgggagatcg     240
aagcttcagt gaaccgtaat tgcaccactc ccttccaggc tggaggacag agcaagaccc     300
```

<210> 595
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 595

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ggatgggcag cccaccatgt gttcagatgg gatattatgg tatttttcat gtggnattgc      60
ctgnnatggt ttatatttnn cnnnnntttt tacangggnn tngtattgtt tcttannttn     120
cntgtttttt cgnattntna tnttnncttn ntttttntn tntntntttn tttngnntna      180
tntttnnttt gattcttcta tttnnntttc nttnnntttn tccttnttag tnnattntnt     240
ttttntttnc attgtnnngt ttnttnattt ttttttttta ttnatatttt ttaatta        297
```

<210> 596
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

<400> 596

```
ccctgcagac ttcttcttgg acatcattaa tggagattcc actgctgtgg cattaaacag      60
agaagaagac tttaaatcca cagatatcat agagccttcc atgcaggata agccactcat     120
agaaaaatta gctggagatt tatganntct ccttcttntn cnnagagact ttagctnnnt     180
tacatntnct tttnngtnnt tnannnaann tntttnnncg ntttttttatt ntgggntttt    240
atttttgttt tatttttntn tnnat                                           265
```

<210> 597

<211> 300
<212> DNA
<213> Homo sapiens

<400> 597
tccgcaccca ccgtggtgaa cgggcccggc caccaccacc atccactctg ctgcggccac 60
ataacccacc tggcccagta cccatggccc ctcgaccccg agttcgggcc cagccttctg 120
gacccagcca gccccacgtg tgtggcttct gtgggaagga gttcccccgg agctcagatc 180
tggtcaaaca caggcgtaca cacacggggg agaagccata caagtgtgca gagtgtggca 240
agggttttgg tgacagttct gcccgcatca agcaccagcg tgggcacctg gtcctgacgc 300

<210> 598
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(279)
<223> n = A,T,C or G

<400> 598
gagaccttga caagaaagat gcatcaatca acatagaaaa tatgcagttt atacacaatg 60
gcacctatat ctgtgatgtc aaaaaccctc ctgacatcgt tgtccancct ggtcacatta 120
agctctatgt cgtnnaaana nanantttgt ctgtnctann ngtttttnn tttntnggtn 180
ntccangtct ttaagnanct ctnntnttgn ctcatntttn ntgctncntn atcntgtgnn 240
agncgtctng tnctnctann tntnnnnttt gatctttt 279

<210> 599
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 599
gaggatatag cgatagagat ggatatggtc gtgatcgtga ctattcagat catccaagtg 60
gaggctccta nngngattca tangctannt nnggcnccat gactgagcgc ntnaccnttn 120
cnngnncccct cgncgtccta ngcggctggn taacccatat cgctactacc ccgcanttcc 180
cggacatgat cctctccgcc tctcgagcct ctagaactat agtgagtcgt attacgtaga 240
tccagacatg ataagataca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa 300

<210> 600
<211> 300
<212> DNA
<213> Homo sapiens

<400> 600
gctgattgag aatagtcgag atgacaccac ttgggtaaaa ggacagctcc aggaactgag 60
cactcgctgg gacactgtct gtaaactctc tgtttccaaa caaagccggc ttgagcaggc 120
cttaaaacaa gcggaagtgt ttcgagacac agtccacatg ctgttggagt ggctttctga 180
agcagagcaa acgcttcgct ttcggggagc acttcctgat gacacagagg ccctgcagtc 240
tctcattgac acccataagg aattcatgaa gaaagtagaa gaaaagcgag tggacgttaa 300

<210> 601
<211> 300
<212> DNA
<213> Homo sapiens

<400> 601
gtattaaata agatgtcttt aaacagaaac acacatatat gtattgattg attaatgagg 60
ctctcaggaa cctgactctg tgtttcccct aggagcagtg tttcagtatt cactaatcga 120
gtgttcatgg tgactttata gaaccactgc aaatagtgag aattaactat acatatatgt 180
ttctgtgtgt acgcacatgt gtgtgtatgc atacttgtct ctaaacatat gggattatac 240
tctgctgctg ttttgctctt tatgtcatta tgtatactat ataagtatat ttttacatta 300

<210> 602
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 602
gaagtgaatg aaaagaaaga cagagttaca gatgccctta atgctacaag agctgctgtt 60
gaagaaggca ttgttttggg agggggttgt gcccttcttc gatgccttcc agtcttggac 120
tcattgactt cagctaannn anntnantan atcnntagnn tntcaccttt tnttttnnan 180
anaggcctnt ttttnntnnn ncnttgnntt ttctttgggt cnnctntntt nntttnnnnc 240
ntncctcttt tgnntnaann tctttnnntt anntcttttt natttgtttt ttgggtctt 299

<210> 603
<211> 300
<212> DNA
<213> Homo sapiens

<400> 603
cagagaaggg acagaacctg acttcaaaat ttaatatagt aatcaagaaa gtatggtatg 60
ggtgagagaa tagacaaata gatggaataa aatagagatt ccagaaagac ccacacaact 120
agagtccact gatctttcaa aaaggagcaa aggcaattca atggagaaag gatggtcttt 180
tcaacatggt gctgtaacaa ttggacatcc acatgccaaa aaaagatgaa tctagacacc 240
ttacatcttt cacaaaaatt aactcagatc atagacctaa atgtgatgta caaaagtata 300

<210> 604
<211> 300
<212> DNA
<213> Homo sapiens

<400> 604
gagccatgcg agcagctcgt tcccttggag aaagaactgt aacagaactg atattacagc 60
accagaaccc tcagcagttg tctgccaatc tatgggccgc tgtcagggct cgaggatgcc 120
agtttttagg gccagctatg caagaagagg ccttgaagct ggtgttactg gcattagaag 180
atggttctgc cctctcaagg aaagttctgg tactttttgt tgtgcagaga ctagaaccaa 240
gatttcctca ggcatcaaaa acaagtattg gtcatgttgt gcaactactg tatcgagctt 300

<210> 605
<211> 296
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 605
gtaaactgta tatctgtaat atgaatccca gcttttgagt ctgacaaaat cagagttagg 60
atcttgtaaa ggaaaaaaaa accggaccaa aatggagatg agtacttgct gagaatgaat 120
gagggaagga gttggcattt gttgaaagta tagtcttttt ctcttttttt ttnaatngca 180
ncttttactt taaatttagg aggtcagtnc ccaggtttgt tncatgggta tattgggnga 240
tgctganctt ggnatncnaa ngatcctgtn acccaggtan ngagtntang ccccca 296

<210> 606
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 606
gtcaacatga agggcaatga catcagcagt ggcacagtcc tctccgatta tgtgggctcg 60
gcgncttccn tggncgcagg ctttcatcgn tatgtntgtc tgtngtattn tcncttntng 120
nttntnnntn tntgntgttt tttngtnctt tttttctgct ntntnntcct ttntttntnc 180
tnctaggnnn ntttntncnt ttcttantnn tttttncttt tttttgnnnt tnttttttta 240
tntatgtngn tttntttgtt tntannntnt tntgnattcn attgnntatn gctattt 297

<210> 607
<211> 300
<212> DNA
<213> Homo sapiens

<400> 607
ggatctgttt ccagtaatag tattcttttt tgttccacaa atcatagatg tcaccattga 60
accttctgaa gagcctttat ttcctgctga tgaattgtat ggaatagttg gtgctaacct 120
taagaggagc tttgatgtcc gagaggtcat tgctagaatc gtggatggaa gcagattcac 180
tgagttcaaa gcctttttatg gagacacatt agttacagga tttgctcgaa tatttgggta 240
cccagtaggt atcgttggaa acaacggagt tctcttttct gaatctgcaa aaaagggtac 300

<210> 608
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 608
cagagaaggg acagaacctg acttcaaaat ttaatatagt aatcaagaaa gtatggtatg 60
ggtgagagaa tagacaaata gatggaataa aatagagatt ccagaaagac ccacacaact 120

agagtccact gatctttcaa aaaggagcaa aggcaattca atggagaaag gatggtcttt 180
tcaacatggt gctgtaacaa ttggacatcc acatgccnna taaagatgaa tctagacacc 240
ttacatcttt cacnaaattt aactcanatc atatnaccta ntgtgatgta cct 293

<210> 609
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 609
gacggaagta aattatgatg tccaggggga gatggaggat aggacgtatt tataataggt 60
atatagaaca caagggatat aaaatgaaag atttttacta atatatattt tatggttgca 120
cacngtacac accagaagat gntaaattnn tttgtggcat ttaannctnt ctnnnnnntt 180
antgcnnntn nnctctaatt tttttnnnt ttgtcntttn nttntcnaag anntnatntn 240
ntnnngatnn nttntntann tttcctt 267

<210> 610
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 610
gtcgccttgg gcgggagctg agcaaagtga tcattgttga caattcccct gcctcataca 60
tcttccatcc tgagaatgca gtaagtggcc ccaaagaaag aaaatgtcgt gctccatctg 120
agccctctgt cttgccaggc aggtaccact tttgagcacc tacacaagaa ggtctctggg 180
ccttttccta atgaaatccc agctctgcca tttagcagtt gcgtgtcatt gaccaagtta 240
tttaacctca ctgagcctcg gntgcctnat ctgcanatgg gaattatagg aatg 294

<210> 611
<211> 297
<212> DNA
<213> Homo sapiens

<400> 611
ttaaatctta cttgatcatt tagagttttg cttttataaa caagcctttt gatacagagg 60
cagaagccag tgaaaaatac ttttatagag atgaggtctt tttattttat ttttttatag 120
agacaaggtc ttgctatgtt gcttaggctc caacccctgg cctcaagcca tcctcctgct 180
taggcctccc agagtgctag gattataggt gtgagctacc gtgctcaact gaaaaatagt 240
ttagaagaca gtcctactcg acaaatattt tctttttctt ttcttttttt ttttttg 297

<210> 612
<211> 262
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 612
ctcggggctc caggctggct tgcccgcgct ctttcttccc tcgtgacagt ggtgtgtggt 60
gccggaaagg gtgatggact tagcattcac agacgacacc acacaccact gtcaaataaa 120
cagctattta agggggaaaa aaaaannaaa aaaanaaaaa aaaaaaaaaa aaaaaacana 180
aaaanaaaaa tnaaaaanna antnnnaaan canaananna atnntanaca aanaaaaaan 240
gaggtantnn nnnagcnnac nt 262

<210> 613
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 613
gattctttcc caggccacaa gacattttct gctcggaacc ttgtttacta atttccactg 60
cttttaaggc cctgcactga aaatgcaagc tcaggcgccg gtggtcgatg ggaccctttg 120
tggagtctgn gatgntatag gtttattcna nancnttata ngctanagta aannagttaa 180
caanaacnnt ngnattcatt ttatgttnca ggttcagggg gaggtgtggg aggtttnntn 240
nnnnnntnat ngnnnnnnnt nnnnnnanat nntttttttt 280

<210> 614
<211> 300
<212> DNA
<213> Homo sapiens

<400> 614
ctcatctcta ccaacaacaa caacaacaaa attagctggg tgtggcagtg tgtacctgta 60
gtcctagcta cttggcaagc tgaagtggca gcattgcttg agcccaggag ttaaaggctg 120
ctgtgaatta tcattgtgcc actatacttc agccagagtg acaaaggaag accctgtctt 180
gaaataaaaa tttttaata aaattaatta actttagtta ctataacatt ctttataacc 240
tttaaaaaat tttaaatttt tgactctttt tgtaataaac agcttaaaac acaaacacat 300

<210> 615
<211> 300
<212> DNA
<213> Homo sapiens

<400> 615
ggcaggagga tggcttgaac attggaggtc gaggctgcag tgaactgaga tggcaccact 60
gtattctggc ctgggtgaca aagtgagact ctgtctcaga aaaaaaatac tgtggaaagc 120
ctctatgtcc caatatgaaa caatctcctg gatatactct tgtggaaaaa agcaacgttc 180
cacagagtat atgtagtaag ttttatctat gtcagaaaga aggagaaata aaaatatgtg 240
tatgtatttg catatttttg taaaaggtag acacaggaag gataaaccaa aaatgcaaat 300

<210> 616
<211> 300
<212> DNA
<213> Homo sapiens

<400> 616
gccgacctgt gggacctgat ctttctctgg ggtagggcca tcctgggcac tgcagggggc 60
tgagcagtgt cgctggcctc cgcctacttt atgccaggag caccccttagt catgacaatc 120
acaaatggcc ccagacatca accagtgtgc cctggagggc agagtctccc ctggtgagac 180
ctccattcgg tcactccctc caccccccagg gccacgctca aagcctgtcc cagaggagat 240
cctggcctcc gcctgatctc ctctgaccct ttacaaaagt ttgctgaccc ctgacttaag 300

<210> 617
<211> 300
<212> DNA
<213> Homo sapiens

<400> 617
cagctcctcc accagcataa tgggacccag catccctgcc aaaactcggg aggtgctcgt 60
cagccacctg gcatcttaca acacatgggc tttacaaggc atgtatggag tttcttgtgg 120
gcttggcagg tggctgtgaa ggccatcagt gtctgaagcc tgtacttgcc cctccccagg 180
tcctgtgagt ggagaggcac agagtgttct gggctagctg agtgtggagg ctgggtggct 240
ctgatgctag ccaatcactc tacgctctag gctcacacct ttccaccttc gacttcgcca 300

<210> 618
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 618
ttttttgcct tttacctggt cccttgatca tgagttttag ctcagataac caggtatttt 60
gaagacgtga ttgtccttgg ccctgcccca tcccttccct ttaaagggtt aaatnttnnn 120
cntgccntnc ctntgnccng aatnccnnna tacnctgcan gccntcctgg gcaacancac 180
actgagcaga ccannangaa acctnggggg ctttgaccnt gtggtctctg atggcttngg 240
gggtgnntnt gcngtccang acaaccggnt annctgnant gncgnttcct acccatgcc 299

<210> 619
<211> 300
<212> DNA
<213> Homo sapiens

<400> 619
ttgaaattac aaatcacgca actgcaacac tagaaggcaa tcagattttt aacaaccggt 60
ttggaggctt atttttagca tctggtgtta atgtgacaat gaaagataac aaaataatga 120
acaatcaaga tgccatagaa aaggctgtta gtagaggcca atgtttatat aaaatatcaa 180
gttataccag ctatcccatg catgatttct acagatgtca tacttgtaac accacagatc 240
gaaatgccat atgtgtgaac tgcattaaga agtgccatca gggacatgat gtagagttta 300

<210> 620
<211> 300
<212> DNA
<213> Homo sapiens

<400> 620
taagggattt gtggcatacc atcaagccaa cccattatac acattatgga aagttcacaa 60
gaagaagaga gaaaggaatg ggcagaaagt ttacttaaat agtgacccaa aacttcccaa 120

atctgggaaa gaaaatggac atccagattc aagaagacta aaggacccca aataagatca 180
acataaacac acaccaagac acattataat aaaattgtca aactctcaaa gacagtaaga 240
gaattttgaa aacaagaaaa aagtgacttg tcgtgtacta gggaacacac atcagactat 300

<210> 621
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 621
gagcagggat cttataaagg gccagaaata agatgtgtgg ttcacataga tagtgagcgt 60
aacatctgta ttaaacatag gatagaagnt ttttttngnn nttgattnct ccnctngntn 120
cngttntntt ctnnggttnn gtctntnttn tnacttttnt tnttatnttn ngtcttnttt 180
ntgcttcnat gcttnttntt ntnnttttntt atttnncctt cnnntntttt ntttttttt 240
ttntngtttn tttncccntc tnnntnnt 268

<210> 622
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 622
gataacagca gcctccgctc tctcattgag aagcccccta ttctcagtag ctctttcaat 60
cctatcacag ggaccatgct ggccggcttc cgcctccaca ctggcccgtt gccggagcag 120
tgtcatgtga tgcatattca nnctgccnaa nggangaata ngcgcangcg cntanagtag 180
gcggcccngg atcntgggcc angagaaana cgnncnagat gngagngnga cnagnggnng 240
aatnggggnn anganagtgg tgnggnanng gagnngagng nnagcgggnn gagggggagg 300

<210> 623
<211> 300
<212> DNA
<213> Homo sapiens

<400> 623
ctgccttcca acaaaatcgt caagcgggca gaggagttgg tggggcagga gttgccttat 60
tcgctgacca gtgacaactg cgagcacttc gtgaaccatc tgcgctatgg cgtctcccgc 120
agtgaccagg tgcatcttca gcctgcatcc ccttcccagg agccaggcca ctcccctcagc 180
tgccagaggc tgggtccctg ctggggccag ggtgggatgg aaatagacat gagcaagaca 240
aaatagcaga tatgaaactg ttgtccttga gggtgtcaca tttggggtgg ggacaagggt 300

<210> 624
<211> 300
<212> DNA
<213> Homo sapiens

<400> 624

gcacaatgtc tacccagaga tgtttgttcc tgacctgacg cccaccttct atggtgccat 60
caagaacctc ggcaccaacc aatgcctgga tgtgggtgag aacaaccgcg gggggaagcc 120
cctcatcatg tactcctgcc acggccttgg cggcaaccag tactttgagt acacaactca 180
gagggacctt cgccacaaca tcgcaaagca gctgtgtcta catgtcagca agggtgctct 240
gggccttggg agctgtcact tcactggcaa gaatagccag gtccccaagg acgaggaatg 300

<210> 625
<211> 300
<212> DNA
<213> Homo sapiens

<400> 625
gtcagctcgg gcaagccctc cgagaagaac ctctacgccg acatcgacgc cgcgtggcag 60
gcgctgcgca cccggtatgg cgtgagtccc gagaacatta tcctctatgg tcagagcatt 120
gggactgtcc ccacggtaga cttggcctcg aggtatgaat gcgcagcggt aattctccat 180
tcccctctga tgtctggttt gcgtgtggct tttccggata ccaggaaaac atactgcttt 240
gatgctttcc ccagcattga caagatatct aaagtcacct ctcctgtgtt ggtcattcat 300

<210> 626
<211> 300
<212> DNA
<213> Homo sapiens

<400> 626
taacttaaaa ctgccttttc aatttccagc atgtatagaa aatatgattc gactagaata 60
aagactgaag aagaagcctt ttcaagtaaa aggtgcttgg aatggttcta tgaatatgca 120
ggtaggtatt catttgtatc atctaagact gatccttatg acaataagga gtaccttaga 180
gatgattaaa gaatttaaaa atgtgtacat ttcaaatttg ggtgtgtgtg tgtgtgtgtc 240
cctgttagag ggagagaggg acatagctgt aacaaatcac cagatagcct attttatagc 300

<210> 627
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 627
gccatgggca ctgtgagcct gggccagctc cccctgcccc ccatccctca tgtgttctca 60
gctggcactg gctctgccat cctgcctcat ttccatcatg cattcagata attgattttt 120
aaagtgtatt tttngtattc nggaanacgt atnatnanta ntcntaattn ttataagatt 180
nnntttnggn nttttaannt ntgtantatn nntatnttnc nttntntatt tntannantt 240
ttntanttnt tnannagtnn ntnactnttn taatttta 278

<210> 628
<211> 300
<212> DNA
<213> Homo sapiens

<400> 628
agaaagcaga gtgtgcagtt gtgttgactc tttgtctccc ggtgataaac ccatgtgata 60
ttttaccaaa gtagataatc aaaagaattg accaaaaaat attaaagcaa agcaaagaaa 120
caaaaggtga tactgccaga agtgaaattt gaatggaaca taaatggaat tacagaggaa 180

atagcaaaga gtgggaatgt tggcactgct gttgttccag tgactctaga tttgctgcca 240
gacaaactta gtgaaagcat tgtgacataa aggatgaaca agtgacactg gcataagatt 300

<210> 629
<211> 300
<212> DNA
<213> Homo sapiens

<400> 629
ggagaatcac ttgagcccgg gagttctggg ctgttgtagt gcactatgcc aatcaggtgt 60
ctgcactaag ttcagcgtca gtgtggtgac ttccctgggg actcccaggg gactgccaga 120
ttgcctaagg agagatgaac tggccaggtc agaaatggag caggtcgaaa ctcccatcct 180
gatcagtagt gggattgtgc ctatgaatag acactgtatt ccagcctggg caatatagca 240
agatcctgtc tctaaacaaa ataaaacaaa acataaaaaa aacccccttgt ctggaacaac 300

<210> 630
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 630
gggtggcctg tccagctcag catccttgga agtggccacg tacaccttcc tccagcagct 60
ctgtccagac tcgggcacaa tagctgcccg cgcccatttg cgtcattgcc ccatggtctg 120
cctcagctnt gcgnntctga ccntagtggn gntnctnatt gnnnnncana ncccanctat 180
cgtgangatn cttnnnttct gtttnngnca tngntatntg ntcttannat tgcatanntn 240
tcnnngtnct tntttttnnt atnnnaaa 268

<210> 631
<211> 300
<212> DNA
<213> Homo sapiens

<400> 631
gttcagtgct ccccgggatt actctggcta tcaacgggat ggatatcagc agaatttcaa 60
gcgaggctct gggcagagtg gaccacgggg agccccacga ggtaatattt tgtggtggtg 120
atcctagctc ctaagtggag cttctgttct ggccttggaa gagctgttaa tagtctgcat 180
gttaggaata catttatcct ttccagactt gttgctaggg attaaatgaa atgctctgtt 240
tctaaaactt aatcttggac ccaaatttta atttttgaat gatttaattt tccctgttac 300

<210> 632
<211> 300
<212> DNA
<213> Homo sapiens

<400> 632
aaaaatatgg gctgggatta caggcgtgag ccaccacacc cagcctttct tttagtgctt 60
taaatatatt ggccctctgc cttctggcct ccaagtttct gatgaaaaat ctgcttgtca 120
ttttattgag gatccccttgt atgtgacaag tttcttccct cttgctactt tcaggattct 180
aactttgcat ttcaaaagtt agactataat gtgtctcagt gtgggtctct ttgagttcat 240
tttacttgga gttacttgag ctgcttggat gtttatatgc atgtctttca tcaaatttgg 300

<210> 633
<211> 300
<212> DNA
<213> Homo sapiens

<400> 633
ggggtttcaa gaacgtgcct cttgggaagg acgtccgcta cttgcacttc ctggaaggca 60
cccgggacta tgagtggctg gaagcactgc ttatgaatca gacggtgatg tcaaaaaacc 120
ttttctggtt caggcacaga ccccaggaag cttttcggga agccctgcac atggacaggt 180
acctgttgct gcacccagac tttctccgat acatgaagaa caggtttctg aggtctaaga 240
ccctggatgg tgcccactgg aggatatacc gccccaccac tggggccctc ctgctgctca 300

<210> 634
<211> 300
<212> DNA
<213> Homo sapiens

<400> 634
ggcaaaggaa ctaaagaagc ctaatgaaga catgtgctta gcagaccaaa agcctttgcc 60
agagttgcct cgtattccag gacttgttct ctctggaagt acattttcag actgtctcat 120
ggtggtgcag ttcttacgaa actttggtaa agttttgggc tttgatgtga atattgatgt 180
tccaaacctg agtgttcttc aagagggatt gctaaatata ggggacagca tgggtgaagt 240
acaagacttg cttgtgaggc tcctctcagc tgctgtatgt gatccaggtc taataacagg 300

<210> 635
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 635
gaaatacttt gagcagctct gtggggtgta aaccttctgg tggggactga aaatggcctg 60
atgcttttgg accgaagtgt gcaaggcaaa gtctataatc tgatcaaccg gaggcgattt 120
cagcagatgg atgtgctaga gggactgaat gtccttgtga caatttcagg aaagaagaat 180
agagctacga gtttactatc tttcatggcc agaacgcaga atactacata atgacccaga 240
gngtnaaaat ttaaatcang gnctntatca ctgtt 275

<210> 636
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 636
actaactggg ggattttatt tataagggct ctagaaaaaa cgagttattc acaccagcat 60
catcttaact aacattctga actagttagt gctgcttttt attntgtntn ntcttnttnn 120
nttttnnttn ncttnnnttt cnantntttn tnttnttttt atctcttnnt ntncttnttt 180
ttntntttct ttntntngtn tntnnantat tctattaggt ntntcatttg ngtttnctnt 240

ntttttnntgt ntcgctnttc ttggncnntn ttttnnnnnt tatttnnttt nttttggttt 300

<210> 637
<211> 300
<212> DNA
<213> Homo sapiens

<400> 637
gaacatccca cccccccgca gccagtgctc cttgtcaagc tccccccgtc actccaggtg 60
ggagccaccc cggtgagggg gtgtgccact tgtccccagg gcactcctct gggcatcccg 120
ggtgggggat tttggggccg tgggggggcag tctctggtac ctgtgtgcgt cagggatgct 180
ctgcacctgc aaccaggtgt cgtccacggg cgggggcatg gtaacagtgg tcctgttgat 240
gtcaccgatg atgctgagcg cctccttcag cgcgtggtgc atgtgcagca tctcgtcgtg 300

<210> 638
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

<400> 638
gaagccagcc aacttcttgg atcttggagg tggtgtaaag gaagctcaag tatatcaagc 60
attcaaattg ctcacagctg atcctaaggt tgaagccatc cttgtcacta tatctggagg 120
tatagccatn anaaggctgc aattaccaag gnatcancaa ccnattgcat tcatntnatn 180
cntcaggttc acgtgnaggc ntgggaggtt taantagcaa ngnntnnnnn acangggcta 240
canncaatnn nccccgtant atcnna 266

<210> 639
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 639
ggaggccaca gtaaacctcc tcacagccca ctggtcctca agaggtgcca cgtctccaca 60
catcagcaca actacgcagc gcctccctcc actcggaagg actatcctgc tgccaagagg 120
gtcaagttgg acagtgncag agtccngnna cagatcacnn tctanctnaa tctncactca 180
nnctncagnt tncttggncn cnngtangnn aatngnaant nnnnnntttn tttcnntana 240
tnnttcttnn actnttnnnc ntngttnatt ttctt 275

<210> 640
<211> 269
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(269)

<223> n = A,T,C or G

<400> 640
actactttta tttataagga aagtttctct attttgttta taaacattaa accagtgctg 60
tgtgaaggca cttaattggg gggaggtgtg ggaggtttnc angcccntac cacnnntnac 120
nnnccatanc cccccattgt tgnnaaaaan ggggantnga nttactanca ganntancca 180
cctanntnan nncccccncc atgcccncat nnnangnggc tgcctntnac gaanannnnc 240
ctggnnanag nncctanncc ttnnnattt 269

<210> 641
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 641
aagagtgaca agcattggta acagtgcctt agaactgtgt cagttagtct gatttggaaa 60
tcctttatgt aaagctgaga ctggtcctgg ttttgttccc tttggctaca gacctnttgt 120
ccnagntcta ntgtnnccat tncggccttt ncagntnnnt gnattcctcc ntatcnnntt 180
tctntnntnc ctttatnttc ctgttcttta ttttnncttt anntcctcng tggatctcta 240
ttnnnttcta ngnggcctct tcctnnttgg anttntnntc tntnantcct tgtcc 295

<210> 642
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 642
ctgtaaatga caaaagaaaa agaaaaattg agccttggga cgtgcccatt tttactgtaa 60
attatgattc cgtaactgac ttgtagtaag cagagtttnt gnnnncnang nattgtagac 120
tttnntatnn tnattttnnn nnganttnct ttntnaattn cttnntaatn tnnacattna 180
tgnttcnttt annttanngn ttanttntta ttgnttntct nnnnnttttt nttnctttna 240
tttttntttt acttnttatt tt 262

<210> 643
<211> 272
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(272)
<223> n = A,T,C or G

<400> 643
ggagaattcc cttattgctc acttctctga gcttcaaggt tctgaagcat ccagataaga 60
agttccgggt tggccaggcc ctgagggcca ccgttgttgg cccagattcc tccaagaccc 120

tcttatgtct gtccctcaca ggtcctcaca agcttgagga aggggangtg gccnnngccg 180
ntcggtgann gtgatnnann aacnngnnnc tcncnnntcc tcttcncctn tgctnncann 240
nnannancnc nctnnttcac tgaccgactt ct 272

<210> 644
<211> 300
<212> DNA
<213> Homo sapiens

<400> 644
gatgtgtctg gtgtgggttt cccaagcaag gttccttgga agaagatgtc tgcagaggag 60
ctggagaatc agtactgtcc cagccgatgg gttgtccgac tgggagcaga ggaagccttg 120
aggacctact cacagatagg aattgaagcc accacaaggg cccgggccac caggaagagc 180
ctgctgcatg tcccctatgg agacggcgaa ggggagaaag tggacattta cttccccgac 240
gagtcgtctg aagccttgcc tttcttcctg ttctttcacg gaggatactg gcagagcgga 300

<210> 645
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A,T,C or G

<400> 645
ttttgacctt gaaacgatga tcctcaaggt ccttctcagc actggtattc cctgaaggca 60
ttggatgaat aacggagatt ctaacagtct ctgttaagac aggatgngta aagnggncnn 120
tgancttnaa tnttnttcct ntannanttt ntnngnannn ggantncttn atttttttgg 180
atngatnnnt ganattttaa nttnttttgt ttnnanntng nttnnanann nngcnntttn 240
taggggngta nnnttnactt ttatttanct ntntnnggna ttttgttt 288

<210> 646
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

<400> 646
gccatcttcc agtaattcgc caaaatgacg aacacaaagg gaaagaggag aggcacccga 60
tatatgttct ctaggccttt tagaaaacat ggagttgttc ctttggtcct tatatngcna 120
atctatntnt tnggcnannn tntncntgtt tttttcnatn nttttttttt tttttttttt 180
ttgntcncnn agntttaata aaattttttt ttnancnnnn tattannctа ncntttatnt 240
nnaanatann ncnattngt 259

<210> 647
<211> 300
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 647
tgcccccaga actgtcctgg ctccttccgt attaaacgca tttgcatttt gagaagtgtc 60
cttccccactt cagccctccg gagagactac cctagtcttt ctggggtgnn gatgaactaa 120
gntgaagcnt ggcctatntg ctgagagggt anganengaa gtgananngg nntnaatgcc 180
cactngaatg aagctgagag agagatctan naaaagctan aactcatgnt gtctatcttt 240
gaacttggga naaacccaca aggtgctgct gcttatatct gngaagcact ancttattct 300

<210> 648
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 648
agcatatgct tgtctcaaat tgaaaaacgt attcaagaaa tcattgagca gttagatgtc 60
acaactagtg aatatgaaaa ggaaaaactg aatgaacggc ttgcaaaact ttcagatgga 120
gtggctgtgc tgaaggttgg tgggacaagt nctgctttga ttcnnttcnn ncannngnnn 180
cntcntttan ntncnttatn nnnccctngn annnncnntn cctnngcntn nnnctcnntn 240
nnctntnttt cnnnnntcnt ntttttantnc 270

<210> 649
<211> 300
<212> DNA
<213> Homo sapiens

<400> 649
ctgttgatcc aagtgtagcc tgaagcgaaa gaggagcctt ccagacccat gccatatata 60
aacacacgtg ggtgtgcatt ctcccccccac accttctgtg caaagctggg agctcactcc 120
actgcgtctt gctttttttc acttggcaga tcttggagat tgttccacat cagtacataa 180
agtacataaa gattgtcacc ccacaaatac acaccaagtc ctattttcat cagcgataaa 240
aaagaaaagt tcttgctttc cggaagcttg catgcggctc tgagtaccca gtgacaccag 300

<210> 650
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

<400> 650
tccagtcgca acggccagac ctgacctgcc agctccgggc gtggggtgaa atctcttgat 60
tcctagtctc tcgatatggc acctccgtca gtctttgccg aggttccgca ggcccagnct 120
gnnctggcnt tnnagctnac tgccnacttc agngaggata cgganccccg caaggacaan 180
ctgcaanngc gagagtatca tggacactna nggactgntg ctttcatgta cttccantgn 240
tggatcatgg tatgacnaca ttttancnan ntgncatttg a 281

<210> 651
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(273)
<223> n = A,T,C or G

<400> 651
gggatcccga gctgtcctgc agctgtaccc tgagaactca gagcagttgg agctgatcac 60
aacccaggcc acaaaggcag gcttctccgg tggcatggtg gtagactacc ctaacagtgc 120
cannntatan naatnttcct ttgtttnana tntgaccttn ttncnntnnt nctnttngct 180
ntntatnnac ttnttcnaaa nctncttngn gtgntcngtt ctatctatnt atnttntntc 240
tcntttcntt tntgnanctt tgattntatt tat 273

<210> 652
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 652
cttgggctgc ttattacgct cactattatc aacagcaagc acagccacca ccagcagccc 60
ctgcaggtgc accaactaca actcaaacta atggacaagg agatcagcag aatccagccc 120
cagctggaca ggttgattat accaaggctt gggatgagtg ctncnnnata atggntcnnn 180
nnnnttnnnt nncttnttnt ntaaantnna nnnancntga atttancnnn attcataaac 240
nnnatnnntc nncntnntnt aantcta 267

<210> 653
<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(252)
<223> n = A,T,C or G

<400> 653
cccaggatgc ccttgagggg gccctccgac gcctgcttca ccacctttga cgctggggct 60
ggcattgccc tcaacgacca ctttgtcaag ctcatttcct ggtatgacaa cgaatttggc 120
tacagcaaca gggtggtgga nntnatggcc nacatggnct nnatnganta tnaanntggg 180
atgtnccnng ngnatcnann nnnnncgatt cnttnntttn antttctgtn tnncnttnaa 240
tntcgnnttt nt 252

<210> 654
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

<400> 654
aagactttct cctaatgctt ggaaaaccat aactgacata gttctaaatg gcacagtctt 60
cgtgacacta gatattggaa aacaactaat taaagctcat aaaggagcag cattcctttt 120
tatttctacn attnntgtnn atactgtatn nnntnantnn ttcctatcct nnnnttntnn 180
atttncntnt ttnnnttatt cttnnnntan tattgnattt ntnanttnaa nngnnctgnt 240
gnnnttttn gnnnttntat 260

<210> 655
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

<400> 655
attttcaatt tggagcatta actaaatgct catacacagt taaataaata gaaagagttc 60
tatggagact ttgctgttac tgcttctctt tgtgcagtgt tagtattcac cctgggcagn 120
gagctgccan gctttctggt gnnttcttgn tcccnctntc tattnnnnnt ncttntccgn 180
cnnncctntt cctctggann cttcnttctc tnctnntttg tctnnntngn nctnttctnc 240
tnnancttn nntttntcnc cnctng 266

<210> 656
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 656
gtggagctac agatgaagat gatggagctt gctaataaat cccttcccac cccaagcttc 60
ctttatgact gataactagc tccagctgcc tttaagttca gtatccctag tgagctgact 120
ttccccatct tgctctcttc tgcctacttt tctgctccnt ctanacnntg ttgnctctcn 180
tttagcggcn gcctactcta nntncntttt ngtttangnn cctaaanang cgggntnacn 240
aatncttgcc ttgatcntnc nnctttnggn gttnnntttt taattttgga a 291

<210> 657
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 657
ctttggaaac aatatgcaat gtgaagcggt cgtgttgtga gtttagtaag gctgtgtaca 60
ctgacacctt tgcaggcatg catgtgcttg tgtgtgtgtg agtgtgtgtc cttgcgcatg 120
agctacgcct gcctccactg tgcagacctg gtatgtggca tgaacatnag gaaggcctct 180
tttcatgatc atggcntnca anagtgctcc gagcncnntc tttgncatga tacaaaccga 240
tgctntntga ctgatgactc tgnt 264

<210> 658
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 658
ttagccagga tggtctcgat ctcctgacct cgtgatccac ctgccgcggc ctcccaaagt 60
tctaggatta ctggcatgag ccaccgtgcc tggccagcaa ttagaatttt aacactggca 120
gttatgaata atatgaagga gangtnnana tctgannnan nntggattag cnntcnnttg 180
ngctnctttc cgttcatctc atccacagct ttctgtgcat cttcatgcct ttcaaagctt 240
acaaatccaa atcctttgga ttttccactt tcatcagtca ttactttcac acttaaggca 300

<210> 659
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 659
aattagggct gctgtgatat tgtcagcttg cattaacaat tagaagatag agaacccgcc 60
atcagggtgt ctacctaact tctcagggac tacacttggt agcnttccac cattnanaga 120
acngnnanct annanccntt tgccnnntta ncccaanngc ttnctcactt ctcannttcc 180
ttnngnccta nnnnnatnnt nnnatctttn cccctagtnc ctnccttnnc gccatcttct 240
ttnntnnnnt tgncttnann ttnntntcnt 270

<210> 660
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

<400> 660
aggacagaaa aatgggtggt attggaggga attttggaaa gtaaagtgta tgggttaggg 60
actactggac atactgggag tacagtttgg ttaatgagcc tgaagtcctg gactaagngg 120
taagttccat ctggcttttt aacaggtact aattgntgtg tnnagtnagg gagtttttg 180
ntnttttntt nnnntntnnn tnntcttttt tantnttnnt ctnccacttc tccttntttt 240

tntnttntcn nttnncntnt ttttct 266

<210> 661
<211> 266
<212> DNA
<213> Homo sapiens

<400> 661
gttaacaagc gtcatgaaca ggatgcacgt ggtcagcgtc ccctacgcgc tgatgaaggc 60
gaacccactc tcctggatcc agaaagtgtg cttctataaa gctcgggccg cgctggtgaa 120
gtcgcgagac atgcactggt ctctcctagc tcagcggggc cagagggacg tcagcctcag 180
ctcactgcgc atgctgattg tggccgatgg tgccaacccg tggtcgatct cctcctgtga 240
cgccttcctc aacgtcttcc agtcca 266

<210> 662
<211> 300
<212> DNA
<213> Homo sapiens

<400> 662
agaagaagca gttgaacagt tctttagagt tgggtgaaaa aaaatcatag ccccaactaa 60
aaatgctggg gtcacaattg aagaggaaaa aaattcacaa ttgacctgaa tagtaaattc 120
tctaatgtgg gatcttgcat taatgaaaga tctgggttaa gccctcaagt ctaatgattg 180
ataccaagga aggcatcctg cagtattgcc agaagtctac cctgaactgc agatcaccaa 240
tgtggtagaa gccaaccaac cagtgaccat ccagaactgg tgcaagcggg gccgcaagca 300

<210> 663
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 663
ctgcactgtg aacctgggca ctccgcgccg atgccaccgg cctgtgggtc tctgaaggga 60
cccccccaa tcggactgcc aaattctccg gtttgccccg ggatattata gaaaattatt 120
tgtatgaata atgaaaataa aacacacctc gtggcaaaaa aaaaaaaaa aaaaaaaaa 180
aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaatt aaatataatt taatannana 240
aaaannanaa naanntntnt anat 264

<210> 664
<211> 147
<212> DNA
<213> Homo sapiens

<400> 664
gctcggtttg agggctcggc gcggggtttc ctgttcctcc ttctgcgcgg ctgcagctcg 60
ggacttcggc ctgacccagc ccccatggct tcagaagagc tacagaaaga tctagaagag 120
gtaaaggtgt tgctggaaaa ggctact 147

<210> 665
<211> 280
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 665
aattcaaggc ctgtcgagcc tctagaacta tagtgagtcg tattacgtag atccagacat 60
gataagatac attgatgagt ttggacaaac cacaactaga atgcagtgaa aaaaatgctt 120
tatttgtgaa atttgtgatg ctattgcttt atttgtatcc attatatgct gcngntaaac 180
tagnnancan ctacnnttgc nttcatttta nntttnagtt ntntnnntnn tttttgttgn 240
ttttgttnta ntttnctntc tttatntntt tttttttt 280

<210> 666
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A,T,C or G

<400> 666
gtaggggagg ggctcctttc cataaatcct tgatgattga caacacccat ttttcctttt 60
gccgacccca agagttttgg gagttgtagt taatcatcaa gagaatttgg ggcttccaag 120
ttgttcaggt cctctgacac cttttggtat cgttaatttt actgatttgt gtagaatgtc 180
agttgtattt taccagctaa tatctagaaa tgctggcaag aggggtttac tccagcttta 240
gattgnaggt atgctacctt ntttcataca gngnnttann nttactga 288

<210> 667
<211> 163
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(163)
<223> n = A,T,C or G

<400> 667
tgaaattcag ctaaccgagc agctacggtc cctcatcccc aacgaggatg tgagaaagtt 60
catgtctcat gttatctgga ccttgaaaat ggaatgttca gaaacacatg tgcaagggag 120
ctgtgccaag ctcatgtcgc gaacaggcct nctgatgaag ctt 163

<210> 668
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 668
ataaaatcga taaggaaaat cgtgaagtcg atagaaatga aggcctgaaa tttgcacgaa 60
agcattccat gttatttata gaggcaagtg caaaaacctg tgatggtgta caatgtgcct 120
ttgaagaact tgctgaannn atcnttcana cccntggact gtgntaacng tncntntcnt 180
cntnncnntt nntacctctt cnnggnnncn ntccctattn ggnatntntt ntngnnnnng 240
nctnancttt ttannttttn tt 262

<210> 669
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 669
accaagtgca tttagttgaa tgaagtcttc ttggatttca cccaactaaa agtattttta 60
aaaataaata acagtcttac ctaaattatt aggtaatgaa ttgtagccag ttgttaatat 120
cttaatgcag atttttttaa aataaacata aaatgattta tctgtatttt aaaggatcca 180
acagatcagt atttttttcct gtnatgngat ttttnnantt tgncncattt tannntantt 240
nanntgttna tnttttntct anntcttatn tttntngctt attttttttt t 291

<210> 670
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 670
acaagaaaaa tgattcaaaa aactgctgag ccacttttgg ataaggaatc aatttcagag 60
aatcctactt tggatttacc ttgttctata gggagaactg agggaactgc acattcatcc 120
agtacctcag atgtggatnn nccgggngct tctnnggctn tttannttnn ttcnnngtnc 180
ntnntntgga nttnttattc tnttncntcg tncantngtg ccnttactnt tntcntnnnc 240
cnntanntgn tnnnannggt cntt 264

<210> 671
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 671
gctcactgaa gcttaagtga ggatttcctt gcaatgagta gaatttccct tctctccctt 60
gtcacaggtt taaaaacctc acagcttgta taatgtaacc atttggggtc ccgcttttaa 120
cttggactag tgtaactcct tcatgcaata aactgaaaag agccatgctg tctaggctac 180
aacnnnnttn tnnaanngn nnnnnngctt tnngcncccn tttgnnnccn gnggggaann 240

nnnacccnnn aaccnntttt t 261

<210> 672
<211> 251
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(251)
<223> n = A,T,C or G

<400> 672
attcatttct ctaacagcag taatattaat aattttcatg atttgagaag ccttcgcttc 60
gaagcgaaaa gtcctaatag tagaagaacc ctccataaac ctggagtgac tatatggatg 120
cccctcaccc cacaaccacc accaccacaa taaacaagtt gctgacagcg gaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaan aaaaaaaaaa anaaaaaaaa 240
ataaatnntn t 251

<210> 673
<211> 300
<212> DNA
<213> Homo sapiens

<400> 673
ctgggtttca ccatattggc caggctggtc tcgaactcct gacctggtga tccccctgcct 60
cggcctccca aagtgccagg attacagacg tgaagcactg cacccggccc acactgtagt 120
tttttagca gacagtttca tggcctactt cactaagtag atggagatat ccccccatct 180
tccatggaaa tgtctttctt acttgcctct tatttctcta tcttagaaaa agaggaatcc 240
agtcgggctc ggtggctcac acctataatc tcagcctcct gagtagctga gactacagcc 300

<210> 674
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 674
accagattgt tttgcttcag cctcaggtga tcagactctg agaatatggg atgtgaaggc 60
agcaggagta agaatcgtga ttcctgcaca tcaggcagaa atcttgagtt gcgactggtg 120
nacatncnat ganaatttgc tggngancnn tncgnttnan ttnttttntn tttntntnnn 180
ntgnctttnn tcnnntattt ttnntcnttn nntnacncnn ntcnagtnng tcnngnatct 240
ctnttttgnn nttntntntt gtccgtt 267

<210> 675
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(266)

<223> n = A,T,C or G

<400> 675
ctccaaggtt ggctccacgg aaaacatcaa gcatcagcct ggaggaggcc gggccaaagt 60
agagaaaaaa acagaggcag ctgctacaac ccgaaagcct gaatctaatg cagtcactaa 120
aacagtcggc ccatttgcca aattgcnntt tcntnttnnt ntatattgtn ttntnnttgt 180
tttaantntt ntncntntaa ctnntntnnn ttcttttnan gannttnttn nnatttnntn 240
cgtntttttn attnaattng tttntt 266

<210> 676
<211> 300
<212> DNA
<213> Homo sapiens

<400> 676
agaaagattc tcgcttaaaa aaatgtattt attttatggc aagttggaaa aaatgtaact 60
ggaatctcaa aagttctttg ggacaaaaca gaagtccatg gagttatcta agctcttgta 120
agtgagttaa tttaaaaaag aaaattaggc tgagagcagt ggctcacgcc tgtaatccca 180
gaactttggg aggctaaggt gggtggatca cctgaggtca agagttccag accaggctgg 240
ccagcatggt gaaaccccgt ctgtactaaa aatacaaaaa attaactggg catggtagtg 300

<210> 677
<211> 300
<212> DNA
<213> Homo sapiens

<400> 677
ggtagaagca gcaaagaaag cccaccatgc agcgtgcaaa gaggagaagc tggctatctc 60
acgagaagcc aacagcaagg cagacccatc cctcaaccct gaacagctca agaaattgca 120
agacaaaata gaaaagtgca agcaagatgt tcttaagacc aaagagaagt atgagaagtc 180
cctgaaggaa ctcgaccagg gcacacccca gtacatggag aacatggagc aggtgtttga 240
gcagtgccag cagttcgagg agaaacgcct tcgcttcttc cgggaggttc tgctggaggt 300

<210> 678
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 678
gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga 60
gagagagaga gagagagaga gagagagaga gagaganann gaganagana nagagagagn 120
gagagagaga ganagagagn gnnngagann nagagngngn cntcatctgc tttntcncac 180
gcactcncnc ctgnccctnc gtttnttgnt tcctgatctc acttccgtct ngctcactct 240
cnctngctgg ngattctgnc ctgnnaacnn atactnantt tttntcttat g 291

<210> 679
<211> 297
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 679
gagtcaggaa ggtaaggcgg ggagtgactg aataaactct gccttttaaa ttgagcatct 60
gggccgggca tggtggctca cgcctgtaat cccagcactc tgggaggtcg aggtgggacg 120
tgtcatgctg atccagtttg tgaacgtgct gctncaggtc ctggtccaca agtcccatga 180
tcttntnnan gaggagattg gcatcgccat ntacaacatg gcctcagtca antttgatgg 240
ctcgtttgcc gnnttnctnc cngagttcnt gacccnctnt natnntgtng attcctg 297

<210> 680
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

<400> 680
gaacctcatc aggaggactg aaggaaagga gccaggctgc agccctctgc ctgcccttcc 60
gtgccatcat ctccaggatt aatgaaaggg ccattcagga aacagcacag ggagctacaa 120
atttacgggt tcactggtga ttgatctttt catccagcac aatggacaga agtctaagga 180
acgtccttgt ggtttccttt gggttcctgc ttctctttac agcctatgga ggtctgtaga 240
gcctgcngag cagtcngtac agttag 266

<210> 681
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

<400> 681
ggacagcact tagtagctgt ggaggaagat gcagagtcag aagatgaaga ggaggaggat 60
gtgaaactct taagtatatc tggaaagcgg tctgcccctg gaggtggtag cacggttcca 120
cagaatntag tanaacttgc tgctgatgan gatgatgacg atgatgatga agaggnagat 180
natnnnttgn nnatntnctt nntntntttt nnnncnnntg ttgntntttt nttncccnnn 240
ntnnnataaa ttgtntttt 259

<210> 682
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 682

cctttgaatg taaagaatgt ggaagatcct ttagaaattc ctcatgcctt aatgatcaca 60
ttcaaattca cactggaata aaaccacaca agtgtactta ctgtgggaaa gccttcacta 120
gatcaactca acttactgaa catgtaagaa ctcacactgg aataaaaccc tatgaatgta 180
aggaatgtgg ccaagccttt gctcagtact cgggcctttc tatacacata cgaagtctca 240
gcggnangaa nncctatcag tgnnaggnat gtnnganng cntcnctact ccctc 295

<210> 683
<211> 300
<212> DNA
<213> Homo sapiens

<400> 683
actataggcg cccaccacga cgcccggcta attttttgta tttttagtag agacggggtt 60
tcaccaggtt agccaggatg gtctcgatct cctgaccttg tgatccgccc gcctcggcct 120
cccaaagtgc tgggattaca ggcgtgagcc accgtgcccg gcctacaaat gttaacaaag 180
caattaccaa tggccttttt acatattttt tctttaatga ggaataatat gcatgtagaa 240
aagacctact taaagtcttc atttatattc tttcaaatca aatctttatt taataactta 300

<210> 684
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 684
aatttggctc gcagcgcagc cgtggcccgt gcttcctctc actcatccca gacacagggt 60
gggggcagcg tcaccaaaaa gcgcaaactg gagtccactg agagccgcag cagcttctca 120
cagcacgcac gcactancgg gcgcgtggtc gngnaggagg agnncntagg gacgtatctg 180
ctatgaaaat cccaaanttt tcagatagng ccctaaaaac aattttatat gccncactgg 240
ttggtattct taggntattc ccacacttga ctttatcatt ggtactacta g 291

<210> 685
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 685
agagagagag agagagagag agagagagag agagagagag agagagagag agagagagag 60
agagagagag agagagagag agagagagag agagagagag agagagagag agagagagag 120
agagagagag nnattnnctc tntntnctcc tctctctcnt ttttntcccc ctnttttccc 180
ttntttnttc gntntttntc nttcntcntt ctctntctcg tctccnntnt nttncntttn 240
cctctccttt tttcttntct ctnttnntcc ttcctncnct tcttgttctc ttctttcttt 300

<210> 686
<211> 238
<212> DNA
<213> Homo sapiens

<400> 686
gaaatacttt gtgcagctct gtggggtgta aaccttctgg tggggactga aaatggcctg 60
atgcttttgg accgaagtgg gcaaggcaaa gtctataatc tgatcaaccg gaggcgattt 120
cagcagatgg atgtgctaga gggactgaat gtccttgtga caatttcagg aaagaagaat 180
aagctacgag tttactatct ttcatggtta agaaacagaa tactacataa tgacccag 238

<210> 687
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 687
cgagccacaa gctgcactgt gaacctgggc actccgcgcc gatgccaccg gcctgtgggt 60
ctctgaaggg accccccca atcggactgc caaattctcc ggtttgcccc gggatattat 120
agaaaattat ttgtatgaat aatgaaaata aaacacacct cgtggcaaaa aaaaaaaaa 180
aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aataaannnn nnncnnnaaa 240
aaaaannngg gnnntnnnna nnaaaannnn aaaaaaaaa aaaac 285

<210> 688
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(253)
<223> n = A,T,C or G

<400> 688
cgagccacaa gctgcactgt gaacctgggc actccgcgcc gatgccaccg gcctgtgggt 60
ctctgaaggg accccccca atcggactgc caaattctcc ggtttgcccc gggatattat 120
agaaaattat ttgtatgaat aatgaaaata aaacacacct cgtggcaaaa aaaaaaaaa 180
aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaannnc nnncntnnaa 240
aaaanttggg ggg 253

<210> 689
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 689
ccagcattca aaattcccat gcttagggaa tccattggga cttctcccca ggatgtactg 60
aattcaagga agctttctct aggtgtagca gaaactgctg ctgnnatgtc tctgctcacc 120
aggacgtnng ttctntntac agncctttat ttgnttnnnn tggnggnant agnttntngn 180
ccctggnanc tagnnnantg gggntnnnan nttntggtan ttngcgtcat nttcnnttgn 240
nnattacnnn ntntgntgcn tt 262

<210> 690
<211> 300
<212> DNA
<213> Homo sapiens

<400> 690
acaccttcat tgtcgtatct ccggtgtgta tcagctctcc aactctatgt cataattcag 60
ttcatgggga tcttgattac ctttcccttc cacaaaatat tacactgatt ggttatatcg 120
atgacattat gctgatttga cctagtgagc aagaagtagg aactacatta gacttagtgg 180
aaagacattt gcatcagagg gtaggaaata aatatgacta caattcaagg gccttctacc 240
ttagtgaaat tggtagggac ccagtgacat ggggcatgtt aggatatttc ttctacggtg 300

<210> 691
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 691
atagcactga tgctgggcca acaattagcc ccatttgtac ctttttacaa actttttgac 60
aattgccaag aatcgtccac cttccctccc cattgaatta aatacacttc ttgtctcatg 120
gatactcaga ataccaatca aggtaacaga tgcctttatt ttaactaagg acacagtaca 180
gatctcacag ggacactcct tattccttgc agagtttcag acactactga gggtcaccat 240
agcancnttt natcngaann cnca 264

<210> 692
<211> 300
<212> DNA
<213> Homo sapiens

<400> 692
ggataccgta tcgacgtggg gcctccggtt gctgctaaat gggaaaaact tagcttagta 60
ctgatagatg actttattga aagtggaact gaacaagtac tcctactttt taaggactcc 120
ttgaactcag actgcctgac ttcatttaaa ataacggatc ttggaaaaat aaactattcg 180
agtgaaccat cagattgcaa tgaagatgac ttatttgaag acaaacaaga gaatcgttac 240
ctggtggttc cacctctaga aacaggactg aaaagcacat ggaagatctt tttgcacttc 300

<210> 693
<211> 282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

<400> 693
atgaaccatc tgcttttaat gattttcaga ggccagccat ttattacatg atgtcattca 60
gggattggta tgagatgcaa gatgctggaa ttacttcaga ctcaatgatg aagaacttct 120
tctttgtgcc ttcttgcntt cacntgagcc nnanacgctc gcttttcngn tgcngcttaa 180
actggccttn ccgctnnnnt anntntgctn ntggacnccc catacgtacg cntcctttnn 240

ctnnnngncc aggtcatnga tncnttcctn accntcaaat tt 282

<210> 694
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 694
cccaagcccc atctcatcct ggcacgccct actccactgc cctggcagca gcaggtgtgg 60
ccaatggagg ggggtgctgg cccccaggat tccccgagcc aaactgtctt tgtcaccacg 120
tggtgctcac ttttcatact tccnnaaatt acctagnccn cgnnntaaca tgganngnnc 180
tgttgcctta nctaanggna caaccataac ctggctgccc atcatgtggt ccnacccaat 240
caaggnnaga atgangaatg ctngactgga nncccctgga nccanatggc nanagggtga 300

<210> 695
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 695
gcctggacac tgcaatatac atacatacat aaacataaac cggaaatcca tatgagcttg 60
gaggtagagg agtgggtggt gttggatttg gtggtgggtg ggaccctttn tgggtccttc 120
ctggtncccct gagggcncna tnaggagtcc nttacttcct ttcttccttc atattttaca 180
ggcngatgct tttcttataa tctaattaca tctttttatt tgttatatat tacaaaccat 240
nacacttata aatacttccn ngaantgctt ttttgaagtg tgaattaatn tnaaatgggg 300

<210> 696
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(255)
<223> n = A,T,C or G

<400> 696
gccccttgtt catctgtgtc ttctgcaaac tagtctcatg aagaattctg gcgtgcagcc 60
agggtagctg aagtttgggt ctgggactgg agattggcca ttaggcctcc tgagattcca 120
gctcccttcc accaagccca gtcttgctac gnggtncatg gnataccnga ctcncttngg 180
gcctnanttc ncnctttctt tttgtgtngn tcntaatnna tnantntntt nnntntngtt 240
nnntntctcc ttntt 255

<210> 697
<211> 293
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 697
cgaagctctc tacgacattt gcttcagaac cctaaagctg accacgccca cctatggtga 60
cctgaaccac ctggtgtctg ctaccatgag tggggtcacc acctgcctgc gcttcccagg 120
ccagctcaat gctgacctgc ggaagctggc tgtgaacatg gtcccgttgn cnangatgca 180
ctnattnntg nccnnatttg gccccatgaa cagacggnnc gnntgtcann atctggccct 240
agnatacggc tgnannatac ancgtgagac agntgtttnc ataanagtgg ctg 293

<210> 698
<211> 257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

<400> 698
gacaacgaaa gttacttggg cttcctgagg attacttgta tggacaaact accacatatc 60
tgacatataa tgacttcatc aacaaggaac ttatcttgtt ctcaaattct gataacgaga 120
gatctatccc ttctatggtg gatggnttga acnnttanna nanaannntn nnntattcat 180
aattacancc ctnacnnaca nntactnann gnacncnana nnnnnatnaa ttacatntnn 240
atnntatnct nnnncnt 257

<210> 699
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 699
caaaggggac tatcctctgg aggctgtgcg catgcagcaa gatctacgtg gatgatgggc 60
ttatttctct ccaggtgaag cagaaaggtg ccgacttcct ggtgacggag gtggaaaatg 120
gtggctcctt gggcagcaag aagggtgtga accttcctgg ngctgctgng gactngcctg 180
cttngtccca cancgncttt cnanntctgn tgtctnctnn atntntngtg tggtncntnn 240
ntnttncntt annttnctnc tactttttng tgangnnncc cantgannna anccttgtcc 300

<210> 700
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(255)

<223> n = A,T,C or G

<400> 700
ctgaaagtag ctaaggcacc ccagccggag gaagtgagct ctcctggggc gtggttgttc 60
gtgatccttg catctgttac ttagggtcaa ggcttgggtc ttgccccgca gacccttggg 120
acgacccggc cccagcgcag ctatgaacct gnancgantg tccnttgang agaaattgan 180
cctntgccgg angtactacc tggtnnngnt tngnttnatc tnnnngtnct tatctgtctn 240
nnncttntcc tcatt 255

<210> 701
<211> 300
<212> DNA
<213> Homo sapiens

<400> 701
acttggcaaa tgttgctaac aaccacaagc agaatttgat gacggtggca aaccttggtg 60
tggtgtttgg acccactctg ctgaggcctc aggaagaaac agtagcagcc atcatggaca 120
tcaaatttca gaacattgtc attgagatcc taatagaaaa ccacgaaaag atatttaaca 180
ccgtgcccga tatgcctctc accaatgccc agctgcacct gtctcggaag aagagcagtg 240
actccaagcc cccgtcctgc agcgagaggc ccctgacgct cttccacacc gttcagtcaa 300

<210> 702
<211> 300
<212> DNA
<213> Homo sapiens

<400> 702
gtgaattgcg ggaatctttg tctgaagtgg aagaaaaata caagaaagcc atggtttcca 60
atgcacagtt agacaatgag aagaacaatt tgatctacca agtagacaca ctcaaggatg 120
ttattgaaga gcaggaggaa cagatggcag aattttatag agaaaatgaa gaaaaatcaa 180
aggagttaga aaggcagaaa catatgtgta gtgtgctgca gcataagatg gaagaactta 240
aagaaggcct gcggcaaaga gatgagctta ttgagaaaca tggcttagtt ataatccccg 300

<210> 703
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 703
tgaggctcag tacgtattcc tgcatcagtg catcctgcgg ttcctccaac agtcagccca 60
ggccccagcc gagaaggaag tcccgtatga ggatgtcgaa aacctcatct acgagaacgt 120
ggccgccatc caggctcaca agttggaggt ctaantgacg agggggctgn ncggnatnnc 180
aggcattctc atgctctnga cncccantng agnccatatn tttngannan tanangnnng 240
nnntgnnnna ttnntgntnt gc 262

<210> 704
<211> 300
<212> DNA
<213> Homo sapiens

<400> 704

ggtgaagaac cggatcactc tgcaggaagt ggtctcccac tgcaagaagc tgaccaagag 60
gaataaggaa cagctgtcag atatgatggt tctggacaag cagaagggtt taaagtcgct 120
gagcaaagag aaacggcaga aactagaagc ataccaacac ctcttctacc tgctccagac 180
tcagcccatc tacctggcca agctgatctt tcagatgcca cagaacaaaa ccaccaagtt 240
catggaggca gtgattttca gcctgtacaa ctatgcctcc agccgccgag aggcctatct 300

<210> 705
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(241)
<223> n = A,T,C or G

<400> 705
ctatagtgtg cactctgaaa tgtactcagt gaaaatttgt tttgagtttc attaatgcta 60
tttcaccagt tagacataat tacttctacc gatgtgaatg atacggatgc cggcagagct 120
tccagatctt tcagactcan ctgctaggtc aantactttg gnntantnnn antntttntt 180
naananntgn nctttntttn nncccnnann tanttttana annnnnnnna nnccttttnaa 240
a 241

<210> 706
<211> 300
<212> DNA
<213> Homo sapiens

<400> 706
ggaatctgga aaaccagggg ctcatgtaac tgtgaagaag ctgtttgttg gcggaattaa 60
agaagatact gaggaacatc accttagaga ttactttgag gaatatggaa aaattgatac 120
cattgagata attactgata ggcagcccgg ctatcagccc ggatgacagt gacgaggaga 180
actgagggca cgtggggtgc ggcagcgggc tagggcccag ggcagcttgc ccgtgctgcc 240
gtgcagttct tgcctccctc acggggcgtc acccccagcc cagctccgtt gtacataaat 300

<210> 707
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 707
aattcaaggc ctctcgagcc tctagaacta tagtgagtcg tattacgtag atccagacat 60
gataagatca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa aaaatgcttt 120
atttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacaa 180
gttaacaaca acaattgcat tcattttatg tttcaggttc agggggaggt gtgggaggtt 240
tttcctatgg gcatgggtgg cttcaccaac gtgaactttg gccgctcncg ctctgcccaa 300

<210> 708
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 708
agacgctggt ggccctgtgg tgggagagga aaggaaggag agggtgttgg cagtcctttc 60
acactggctt tgaagtcctg agatgaggaa attcccagtc tggccttgct gggctgtttg 120
ctgctttgag tgtgtcctca tctgccggat ggtggnggag gctgaattga tcntngnctt 180
tcnatatgcc angcccttn natcanngct gctganagcc cttctcctcn taatcctntt 240
tnnctttctt cttgtnccat nntccttttt gntgcncnct angcntttng ntcttgtg 298

<210> 709
<211> 274
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(274)
<223> n = A,T,C or G

<400> 709
aagaagctgc ggaagcccag acaccaggaa ggtgagatct tcgacacaga aaaagagaaa 60
tttgtgagtc cacagctttt accaaaaatc aaagctattc ctcagctcca gggctacctg 120
cgatctgtgt ttgctctgac gaatggaatt tatcctcaca aattggtgtt ctaaatgtct 180
taagaaccta attaaatagc tgactacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aacnnnnccc ntnaaaaann nngggggggt tttt 274

<210> 710
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 710
gatgacctca acactgcctc ttgatttgtt tgatgcatgt cactttcatt aattttcccc 60
ctcctttttg aaagtcctgt ggcagtacta atattttcat tttatgtaat ctctggtgct 120
gctttccagt cactgtatga agtgtctccc caacactagc aaatctaggt cctactaaat 180
acaaatctct gggtggatga tcttctagta ctgtattttt aaattaagga gttttagtta 240
taatgaaatt gatttgtagt ctgttttgcc gtaaacttgn ttttctttaa attgt 295

<210> 711
<211> 254
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(254)
<223> n = A,T,C or G

<400> 711
gaaaaggcaa gcaagccaca gacagagaga aaatagtcac aaaacgtatc tgacctccac 60
atcctgtaat tagaattatt gtggtctggt acactgcacc cagtttctgc aggagtactt 120
tctgggtgtc tctattgagt aagagagggc cccatgggat attcctacag ttcccagatg 180
aacagtggga aagactctac nttncaantc cngggtacnt ntntctngng nccttttntna 240
nngtcnanac nnnt 254

<210> 712
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 712
gagcggcctt acaagtgcga tgactgcgga aaggccttgt cccagagctt cgacctcatc 60
cgccaccagc ggacccacgc ggcgggccgg cgctgacctg gggccccagc aggggtggga 120
ggtgagggca gaagataagg ggccagggag ctaatngant ctttagggag gatatangng 180
ngaatcccca atanaatgna ggacnnttat ntnctggann annacattga tgctgtaagt 240
gatgtcngga cnnncctggn ncctgnncac ccagnagnaa ngnggcantt cttacctg 298

<210> 713
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

<400> 713
gaagcacacc tttgacagcc acacctggag gccgaggaga catgaaatat ggcatatatg 60
ctgtagagaa tgagcatatg aatcggctac agtctcaaag ggcaatgctt ctgcagggca 120
ctgaaagcct gaaccgggcc acccaaagta ttgaacgtnt ttatnngnnt gttcagagnt 180
tgtncttnnt ggatttnttt ctttntngnt tnanntgggt cgtgtttttt annnnctttn 240
ttnncntnan ntcnggtcgc ttata 265

<210> 714
<211> 300
<212> DNA
<213> Homo sapiens

<400> 714
ctgatcctcc gcttccagaa ggagctgaag gagatccagt acggaatcag agcccacgag 60
tggatgttcc cggtgtgaag ctgcaggctg tgctccagat ccaccgaccc gtagcatctc 120
gtcacgccag cactcgcctc cctaccaatg actcacctga aattgaaacg ggcaggaaat 180
agtctggcag cctctacagc agaagaaacg gcaggcagtg cccagggtcg tgcccaggag 240
gctgagcagc tgctacgcgg tcctctgggt gatcagtacc agacggtgaa ggccctagct 300

<210> 715
<211> 300
<212> DNA

<213> Homo sapiens

<400> 715
ctgagccagg tgcgggatat aatcttgtgg tgcgccgttt tttaagccgg tccgaaaagc 60
gcaatattcg ggtgggagtg acccgatttc ccagctcaga acctgaggac gcagccatgg 120
agcggtcggc cttcatggag ctggatgctg ggagcaggct ggtgatgcat ctccgcgagt 180
ggccagccct gctggtcagc agcacgggct ggacagagtt tgaacaactt actcttgatg 240
gacacaacct tccttctctt gtctgtgtga taacagggtc ggtggacctg ggtgtctgtc 300

<210> 716
<211> 300
<212> DNA
<213> Homo sapiens

<400> 716
ggtgaatgcc acacccttca agattgctcg aggccagatc ttgaagatac tcacagggaa 60
gatagtggtg gggcatgcca tccacaacga cttcaaagcc cttcagtact ttcaccccaa 120
gtccctcacc cgtgacacct cccatatccc ccccctcaac cggaaggctg actgcccgga 180
gaatgccacc atgtctctga agcatctcac caagaagctg ctaaaccggg atatccaggt 240
tgggaagagc ggacattcct ctgtggaaga tgcccaggcc accatggagc tatataagtt 300

<210> 717
<211> 300
<212> DNA
<213> Homo sapiens

<400> 717
tttagatgtt ccagagtcct cagagtccat gaaaggactc acagtggaga aaagccctat 60
gaatgtaaac aatgtggtaa agccttcaaa tattctagta acctatgtga gcatgaaaga 120
actcacactg gagtgaaacc ttatggatgt aaggaatgtg gtaagtcgtt tacttcttcc 180
agtgcccttc gaagccatga aaggactcat actggagaaa aaccctatga atgtaagaaa 240
tgtggtaaag ccttcagttg ttccagttcc cttcgaaagc atgaaagagc ttatatgtgg 300

<210> 718
<211> 300
<212> DNA
<213> Homo sapiens

<400> 718
cggcggcggt ggtggcttgt ggtgcggcct caccatacag gaacagggca gacgttagcg 60
tgagtgatca ctctcaatcc cggggacctg gtggccttag tctttcaggt ggaacggtgt 120
gcgacatggg aaagaaaacc aagcggacag ctgacagttc tcctccaccc ctgacaacca 180
ctcaccattt tactacttct atctttttga ctttccaaga atgtcctaga gttggagtgg 240
tacagtatgt gggtttccag actggcttct ttctagcatt atgtacttta agttccttca 300

<210> 719
<211> 300
<212> DNA
<213> Homo sapiens

<400> 719
actcagccca cctgcaccca ggtgaaataa acagctttat tgctcacacg aagcctgttt 60
ggtggtctct tcacacggat gcgcatgaaa tttggtgccg tgacttggat cggggacct 120
cccttaggag atcaatcccc tgtcctcctg ctctttgctc cgtgagaaag atccacctac 180
gacctcaggt cctcagaccg accagcccaa gaaacatctc accaatttca aatctggcac 240
ccactggaaa tcagactgcc cagctcgccc gacagccact cctggagccc ctaaagctct 300

<210> 720
<211> 234
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(234)
<223> n = A,T,C or G

<400> 720
atacggcgtg gagatcagct cctccaccag cataatggga cccagcatcc ctgccaaaac 60
tcgggaggtg ctcgtcagcc acctggcatc ttacaacaca tgggctttac aagggattga 120
gtttgtagct gcccagctca agtccatggt gctaaccttg ggcctgattg acctgcgcct 180
gacagtggag caggccgngc tgctgtcact cctggaggan gnnttccann ntnt 234

<210> 721
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 721
gtggaagaag aaaagtttcc tacacaactg agcaggcata ttaagtttgg tcagaaatca 60
catgtggagt gtgctcgatt ttctccagat ggtcagtatt tggtcactgg gtctgttgat 120
ggattcattg aactatggaa ctttactact ggaaaaatca naatggntnt tanntnccan 180
gcccactnta cntntatnan gatgnangnn nccagnntac agtcntgatn tgtctccagt 240
ctccacctnn cactgtctgg ttncngttgg tactatanga cccatgnnta caacttttgt 300

<210> 722
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 722
gttaattcat tcctttccct gaaggagact gggctctggg ctccctgcgt ggtgaggatg 60
aggagcagaa tagagctgca gtcagcaggg agcagggctc attctgggga gcagagacaa 120
atagagaaca gtatctcttg ctatatgcag ggcactgcaa cttacaaatc acagcgcatg 180
gcgaggacga gggttggggt ggttcctcnn accatgnntn cnnnngttnt acccccttnnt 240
cnnngnnact ctnactnnna a 261

<210> 723
<211> 275
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 723
gtggcaaagc ttcatccagt ctaggtcttc aggattttga tttgctccgg gtaataggaa 60
gaggaagtta tgccaaagta ctgttggttc gattaaaaaa aacagatcgt atttatgcaa 120
tgaaagtttg tgaaaaaaga gcttgttaat gatgatgagg atattgattg ngtncncnac 180
gganaagcat ngtntntgan ccggcntttn ttcatntnnt ttcccncttn ncgnntnntt 240
tnctcngcng ncccngattt tatnnncggt cctat 275

<210> 724
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 724
agaagaattt ggtataatca tgaaagccct gtggacagga cagtatagat atatcagtcc 60
aaaggacttt aaaatcacca ttgggaagat caatgaccag tttgcaggat acagtcagca 120
agattcacaa gaattgcttc tgttcctaat ggatggactc catgantatn ncgntatann 180
ngatnncnnn ntagcnntnn tnnnnntcnn ccccanctga ctttnnnntn ccnnnnnnnn 240
ccngctaagn ngnttgcnnn ntnccccncg cagctccccg 280

<210> 725
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(276)
<223> n = A,T,C or G

<400> 725
gtgacgcgca tgaatggatg aacgagattc ccactgtccc tacctactat ccagcgaaac 60
cacatgccgt tggcaaccac aggtcattca gcgacaagaa tggcctcacc agcaagcggg 120
agctgcggcc cgaagatgac atgaaaccag gaagctttga caggtccata cctgaaaaca 180
atatcatgcg cacaatcatt gagtttctgc tttcttgcat ttcaaagagg ccgggccntn 240
naccgntcnt gaatttcccn gccgancntt ttaaaa 276

<210> 726
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 726

ccgtgggact agggcggcga tggtgtccca tgcagagtgc cgtcctctgg gagtgtttga 60
gtgtgaactc tgtacnttga cagctccgta cagctatgtg ggacagaagc cccccaacac 120
ccagtcgatg gtgaatgcag tttattctac tccaagagat tctgcctccc ttgtgtccgg 180
gagaacatca atgcttttcc tcaggaaatt cggcaagact tggagaaaag gaaagctcca 240
tcaaagagga cccccagcca gcccggttct cggacgtgag tgcaactggg gctaggtcat 300

<210> 727
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 727
ggaagctcca cgtgtagctg agctgcatgc accaggcctc agtttgcccc aagtcccctg 60
tgtactctct catggcctgt ggccaagaaa tgtattctct cactttggac ttaggagtcc 120
aaagagaagc ccagaaacaa aattgcttga acttgaattt gtgtgcgtgc gcacgtgtgc 180
acgtggtggt gaancnatat tnnttccacc nntggctnat nccatggcac cttcaaggct 240
tgatancggn aatcttgtca tnaatggaaa tcccatgnct tcttncanga tcgagattcc 300

<210> 728
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 728
gttattgctc tcggtgttcc taatcctcgg acttccaatg aagttcagta tgaccaaagg 60
ctcttcaacc aatccaaggg tatggacagt ggatttgcag gtggagaaga tgaaatttat 120
aatggttatg atcaagcctg gagaggtggt aaagatatgg nccagngcat ttatatggcn 180
nnatannnat ctgccnnaga anatgtatgg ccgatgnccg tntncgncac cntgnttnat 240
nannanatnc ntnnaccacn ctgnannntn tgtttcnnan cccncnccga ctttggat 298

<210> 729
<211> 245
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(245)
<223> n = A,T,C or G

<400> 729
gcttcatcca gccaaagagg tcgaagtggt tctggaaact ttggtggtgg tcgtggaggt 60
ggtttcggtg ggaatgacaa cttcggtcgt ggaggaaact tcagtggtcg tggtggcttt 120
ggtggcagcc gtggtggtgg tggatatggt ggcagtnggg atggctttcn tgnattngtt 180
ncttannnan gtatntntnn naannntgan tgttannntt ttttntnnct tttnttnant 240
tntnt 245

<210> 730
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 730
```
atttgaagca ccaaaccagg agaaagtttc agactatgaa atgaagttga tggatttaga    60
tgttgaacaa cttggaattc cagaacagga gtacagctgt gtagtaaaga tgccttctgg   120
ggaatttgca cgtatatgcc gagatctcag ccatattgga gatgctgctg gannnnnntg   180
ngcntgngac nggnnnnngn cntctgcatn tgcannatnn gctaagncna ctttnatggc   240
ntctttgncg ccttcctncc atagttncng accagctgtn atggtgtgga tgcctgcct    299
```

<210> 731
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 731
```
agacgcgctc ctgcgccggt atttctggga aaagccagct tctgtttgca ctggtcttca    60
caactcgtta cctggatctt tttacttcat ttatttcatt gtataacaca tctatgaagg   120
ttatctacct tgcctgctcc tatgccacag tgtacctgat ctacctgaaa tttaaggcaa   180
cctacgatgg aaatcatgat accttccgag tggagatttt ggcgtgtcct nncccatgnc   240
actgnatttt atanccttgt gactgtgtca tatanatanc tncntatata tatacata     298
```

<210> 732
<211> 300
<212> DNA
<213> Homo sapiens

<400> 732
```
gtttgaaatg aatgcaatat taatagatgc atatatacat gacatattgt ggttaatttt    60
aaaactactg tgccttaacg tgtttcttaa acttttgtag taaatgaaca tttgaaatcc   120
attttgataa acctgctgtt aatgtttttt cccccttgt gaatgttttc taactttgtc    180
ttggtaattg caatttaact aggtgcggtg gctactaaag ttcgaaggca cgatatgcgt   240
gtccatcctt accaaaggat tgtgaccgca gaccgagccg ccaccggcaa ctaacctatg   300
```

<210> 733
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 733
cattaaactc ccacagtggt caccccactg ctgatgtaca gactttccag gcaaagcgcc 60
atattcatca acaccgtcag tcttactgta attataacac tggaggtcag ttagagggca 120
atgcagccac ttcctatcag aagcagactg acaaacccag ccactgtagc cagtttgtga 180
caccttcgtg gatgangaga cagttctctg tacccantct naaagctggt nnanaaccac 240
ngnntanntn agatatttgn gccaact 267

<210> 734
<211> 300
<212> DNA
<213> Homo sapiens

<400> 734
tcactgatgg tttgctgttt ggaagccatt ggcagggctg ccgtgcatgt ggctgtgagg 60
gctgcacagt cctgccaagg ggcttcctcc ttgtcacccc gaaccttgta atcgtgtgct 120
ggcgtggcag ccctggctaa gttaatcccc accgctttca gtggtagaaa gaattccctg 180
agtgggccag gctggtgccc tcctcctacc ctggcttttc tgagtgagct gcctggagcc 240
ctcatcccct ctcccaggct gggctggccc tgggcggggc cactgtgtgc tggcccactg 300

<210> 735
<211> 300
<212> DNA
<213> Homo sapiens

<400> 735
gtgactccaa gcccacgtcc tgcagcgaga ggcccctgac gctcttccac accgttcagt 60
caacagagaa acaggaacaa aggaacagca tcatcaactc cagtttggaa tctgtctcat 120
caaatccaaa cagcatcctt aattccagca gcagcttaca gcccaacatg aactccagtg 180
acccagacct ggctgtggtc aaacccaccc ggcccaactc actccccccg aatccaagcc 240
caacttcacc cctctcgcca tcttggccca tgttctcggc gccatccagc cctatgccca 300

<210> 736
<211> 281
<212> DNA
<213> Homo sapiens

<400> 736
ccgggctgaa cagcctcacc agcatgccat gtactacctc cgcttgctga tgactgaagt 60
ggcctggact aaagatgagt taaaagaagc tctggatgat gtaacccttc ctcgccttaa 120
ggccttcata cctcagctcc tgtcacggct gcacattgaa gcccttctcc atggaaacat 180
aacaaagcag gctgcattag gaattatgca gatggttgaa gacaccctca ttgaacatgc 240
tcataccaaa cctctccttc caagtcagct ggttcggtat a 281

<210> 737
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 737
gccacagcag cagccacagc cgcaggcgcc ccagcaacca cagcagcagc agcagcagca 60
gccaccacca tcacaacagc ctccaccaac acagcagcag ccacagcagt ttagaaatga 120

```
taacaggcag cagttcaatt caggtagaga ccaagaaagg tttggaagaa gatcttttgg      180
aaatagggtg gaaaatgatc gggaacggta tgggaaccgt aatgatgata gngatantag      240
tnaccgtgac nggatagagn gnggnagnag nnntttttttn ttntatnttt ttttg          295

      <210> 738
      <211> 300
      <212> DNA
      <213> Homo sapiens

      <400> 738
cagacagcca aacagacctt ctgtttcatg aacaggcgtg ttatatctgc taacccatat       60
ctagggggca cctccaacgg ctatgcccac cccagcggga cggcacttca ttatgacgat      120
gtcccgtgca tcaacggctc gtgggaaccg gaagacggct ttcctgcttc ctgcagcaga      180
ggcttgggag aagaggtgct ttatgataac gcaggcctgt acgataactt gccgcctccg      240
cacatctttg cccgctactc tcctgctgac agaaaggcct ctaggctgtc tgctgacaag      300

      <210> 739
      <211> 300
      <212> DNA
      <213> Homo sapiens

      <400> 739
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agaagagaaa ggcaagtacc ttcctagcct ggagatgttc cgccagcgct tcaggcagtt      120
tgggtaccat gataccccctg gaccccgaga ggccctgagc caactccggg tgctctgctg     180
tgagtggctg aggcccgaga tccacaccaa ggagcagatc ctggagctac tggtgctgga      240
gcagttcctg accatcctgc cccaggagct ccaggcctgg gtgcaggagc attgcccgga      300

      <210> 740
      <211> 299
      <212> DNA
      <213> Homo sapiens

      <400> 740
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ttcagcagaa ggtcagtaaa ggcatcgacc ctccctcaagt cctctcgccg gacatggtcc     120
cgccttcgga gagaggcacg cccggcccgg acagttcagg ctctctcggc tccggggagt      180
ttactggcgt gaaggagctt gattgacatc agtcaagaga ttgcccagtt acaaagagag      240
aaatattcac tggaacaaga cattcgagaa aaggaagagg caatcatgac agaaaacca       299

      <210> 741
      <211> 300
      <212> DNA
      <213> Homo sapiens

      <400> 741
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cactaatatg acaaccacca tccagagtct ctttccaaat ctccaggttt tccctgcgct      120
gggtaatcat gactattggc cacaggatca actgcctgta gtcaccagta aagtgtacaa      180
tgcagtagca aacctctgga aaccatggct agatgaagaa gctattagta ctttaaggaa      240
aggtggtttt tattcacaga aagttacaac taatccaaac cttaggatca tcagtctaaa      300

      <210> 742
      <211> 300
      <212> DNA
      <213> Homo sapiens
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<400> 742
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agcaacaaca gctggcgcag atgaagcttc cttcttcttc aacgtggggc cagcagtcca 120
atacaacagc atgtcagtcc caggccacgc tgtcgttggc tgaaatccaa aaactagagg 180
aagaacgaga acggcagctt cgagaagagc aaaggcgcca gcagagggag ttgatgaaag 240
ctcttcagca gcagcagcag cagcaacagc agaaactctc aggttggggg aatgtcagca 300

<210> 743
<211> 300
<212> DNA
<213> Homo sapiens

<400> 743
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aaattaaaca gggagatagt agcctggagt ttggcatcaa acctggtgac ccacgcgttc 120
tgcagaagtt agatgacgat ggattgccgt ttataggagc aaaactgcag tacggagatc 180
cgtattacag ctacctcaac ctcaacaccg ggaaagtttt tgtgatgtac tataagagta 240
aagaaaattg tgttgtggat aacatcaaag tgtgcagtaa tgacactggg agtggaaaat 300

<210> 744
<211> 300
<212> DNA
<213> Homo sapiens

<400> 744
ggcagtcatc aggacctcag tgtgatacag ccaattgtaa aagactgcaa agaggctgac 60
ttatccttgt ataatgaatt ccgattgtgg aaggatgagc ccacaatgga caggacgtgt 120
cctttcttag acaaaatcta ccaggaagat atctttccat gtttaacatt ctcaaaaatt 180
ggcttcagct gttctggagg ctgtggaaaa caatactcta agcattgaac cagtgggatt 240
acaacctatc cggtttgtga aagcttctgc agttgaatgc ggaggaccaa aaaaatgtgc 300

<210> 745
<211> 300
<212> DNA
<213> Homo sapiens

<400> 745
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ataaagtcag tgaaatgagt agttttcaac gtaatctgtt tattctggcc tataattaca 120
aaatggaaca gatttcaaaa ggacgtaata ctccactgtg cgacagcttt gttttccgga 180
aagttcgaag cttgctaggg ggaaatattc gtctcctgtt gtgtggtggc gctccacttt 240
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<210> 746
<211> 300
<212> DNA
<213> Homo sapiens

<400> 746
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ttcagcagaa ggtcagtaaa ggcatcgacc ctcctcaagt cctctcgccg gacatggtcc 120
cgccttcgga gagaggcacg cccggcccgg acagttcagg ctctctcggc tccggggagt 180
ttactggcgt gaaggagctt gatgacatca gtcaagagat tgcccagtta caaagagaga 240
aatattcact ggaacaagac attcgagaaa aggaagaggc aatcagacag aaaaccagcg 300

<210> 747

<211> 300
<212> DNA
<213> Homo sapiens

<400> 747
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cctcgaccgc agcaagatcc ggtctgtggg caagcctgct ctagagcgct tcctgcggag 120
acttcaggtg ctgaagtcca caggggatgt ggccggaggg cgggccctgt acgaggggta 180
tgcaacggtc actgatgcgc cccccgagtg cttcctcacc ctcagggaca cggtgctgct 240
gcgtaaggaa tctcggaagc tcattgttca gcccaacact cgccttgaag gctcagacgt 300

<210> 748
<211> 300
<212> DNA
<213> Homo sapiens

<400> 748
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gatgggaaat aagatctatg agtccatcga agaagccaaa tcagaagcca tgaaagaaat 120
ggagaagaag ctcttggagg aaagaacttt aaaacagaaa gtggagaacc tattgctaga 180
agctgagaaa agatgttctc tattagactg tgacctcaaa cagtcacagc agaaaataaa 240
tgagctcctt aaacagaaag atgtgctaaa tgaggatgtt agaaacctga cattaaaaat 300

<210> 749
<211> 300
<212> DNA
<213> Homo sapiens

<400> 749
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gcataaaagg atccacacag gtgagaaacc ctatgaatgt gatgagtgtg ggaaggcata 120
catctcacac tcaagtctta tcaatcataa aagtgtccac caggggaagc agccctataa 180
ttgtgagtgt gggaaatcct tcaattatag atcagtcctt gaccagcaca aaaggatcca 240
cactggaaag aagccatacc gatgtaatga gtgtggtaag gcttttaata tcagatcaca 300

<210> 750
<211> 300
<212> DNA
<213> Homo sapiens

<400> 750
ctattactcg gcttcttagc attcgcattc ctgctctctt acccccagcg tccacagagc 60
tggatgttcc tcacaatgtc caagtggctg cagtggttgg cattggcctt gtatatcaag 120
ggacagctca cagacatact gcagaagtcc tgttggctga gataggacgg cctcctggtc 180
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gcatggtctg cttggggcat ggcagcaatt tgataggtat gtctgatctc aatgtgcctg 300

<210> 751
<211> 300
<212> DNA
<213> Homo sapiens

<400> 751
gaaattctgg tcctcccttc cgagcaacgt ttgcaacgat gagaggatgg ctgcaggaaa 60
cggcaatgag gatgactgtt ggaatgggaa aggcaaaagc aggtacctgt ttgcagtgac 120
aggaaatgga ttagccaacc agggcaacaa cccagaggtc caggttgaca ccagcaaacc 180

agacatactg atccttcgtc aaatcatggc tcttcgagtg atgaccagca agatgaagaa 240
tgcatacaat gggaacgacg tggacttctt tgatatcagt gatgaaagta gtggagaagg 300

<210> 752
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

<400> 752
aaattagctg ggtgtggtgg tgcacgcctg tgatcccagc tacttgagag gctgaggcag 60
gagaatcact tgaactcggg aggtggaagt tgcagtgagn tganatcgtg ccactgaang 120
atccnnntga gcnacanaat gagatnccat cncaaanttc agtacctana tccttanntt 180
agagattgtn ttganacntn aanntcctgg accttatctg nngctcccct angctngngt 240
nnctntnann ttntttntan tnngcntntt gctnanatna tantccagtg ca 292

<210> 753
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)
<223> n = A,T,C or G

<400> 753
aattccgttg ctgtcgggtt tcaccatgtt ggccacgctg gtctcgaact cctgacctca 60
ggtgatccac cctcctcggc ctcccaaagt gttggtacta caggtgtgag ccactgcgcc 120
tggctggatc taactttttt tcctccttgg tttactcgct cactttgatg gattatgttg 180
tcttgtgttt tcccnntatt agaantcang ggaaatgant nttttganaa ctttcatatg 240
tggctgantt nttgatcnat cntttaannn anatnagnat nnttctgact 290

<210> 754
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

<400> 754
aattccgttg ctgtcgctga ttaatgcact ttgaagttct ctggaattaa ttattttaac 60
ttggcctagc ttcgactgtc aaggtggctg ttataaattt gactcnattg tnagnggatg 120
aancctaagt cagctnanga ctnnatcata tntttnccnt gangnctgtc tgctngctca 180
tgtatnactt nctntatcna nttgacngnt nnnnattctg anntgntggt ntgtactnta 240
cnacaatcag agctgccct 259

<210> 755
<211> 257

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

<400> 755
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gtgctgggtg gtgtgagcca ccgtgcctgg ccagttaatt tntttancg tanntntttt 120
tnnttctnat atttatcngn tgcnnnctan nntnanatta nntntttnan atnnncnccn 180
ttcnnnnnna ccngtgnntt ngcatttnan nttttctaan tatnttaanc ntgatnattt 240
tnctgtnaan ttttnna 257

<210> 756
<211> 234
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(234)
<223> n = A,T,C or G

<400> 756
aattccgttg ctgtcgaaaa ggcttataac ttagggttta gagaacagtt atgaggcatt 60
ctcattgcta aatcatgctc tggggaagtc tgccatttaa tatgtcatag actagggcta 120
cctagttgtt actgatggtg tttgagctga agaaaatgcg tgtgtgtttc tgtaaggtaa 180
gaggagcttg acattcacta aggagataat gaggcattga caggctgnnn tgna 234

<210> 757
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 757
ctactccttc tttttgcagg catcccattt nattcgaatt ccgttgctgt cgctttataa 60
tgcaatttcc agacccttta tcatccttgc tcttgatagc tgtttgtcag catccctctt 120
aaaatgtggt tcccaggagt ggacatgctg tgtcaacata tacactgaga cagttgacct 180
ctttgttctg ggccgagctc attaacttag ggactggggg tccagagtgt ctgtcaagtc 240
cctgaaatta actgtaaatt tttgtatgtc tagacatatt tatgggagga aaacttattg 300

<210> 758
<211> 300
<212> DNA
<213> Homo sapiens

<400> 758
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attacctgtt tgcaattcaa ccccaagttc atgacttttg ccagtgcgtg ttccaacatg 120

gccttttggt tgcccaccat tgatgactga ccctgttgct gcttggctat ttctgtatag 180
tgagggcggc cagcaggaag aaactcagag ggaactgaga taatagtggg attggatcat 240
ttgactgggc tggagaacat ccttttacat ggccttccca tggatgtgct gtacatctgc 300

<210> 759
<211> 300
<212> DNA
<213> Homo sapiens

<400> 759
cgttgctgtc gggaatccct gccaaggtaa cttgacagtc ggcctaattc tgttgacaga 60
aaatgaagcc ttgacggttc taattatcca aaagtgggtt ttcatcagga cgtacagtca 120
gagtgtgagt gcattctaat gaaaacttct tcagccctca ttcaattgca tacaaaagcc 180
ctcaaagaga acatacagta cagcagtttt gtaaaaggca acaatacgat ttgtacagac 240
cccgacactc caatcctata gatcaccacg ttgctcctct gtccccagca ccccttattt 300

<210> 760
<211> 300
<212> DNA
<213> Homo sapiens

<400> 760
aattccgttg ctgtcgaaat ttgtttagct tctcaattca tgttccttag aggatggtaa 60
attaaagtta gcattcctgg acagagcctt tcatacattg aagacaaccc ggtgagtctc 120
aaggggagag gtgtgggaga gatgaaagga tttctccagg cctgttcggc agcatggact 180
gttcttttag gtaattaagg gagaccatag aagacaattg tgtgagtcca tttacctttc 240
acttgggggt cttaagtctt tggttgggct tctttaaccc tgtgtgtcac ccacggactc 300

<210> 761
<211> 300
<212> DNA
<213> Homo sapiens

<400> 761
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gctgaggcct taaaggaaat ggacaaaaat tatccagaag ggtacttttt ccattgtatc 120
tttctaataa gggtttaaaa tggtactatt atggtattgt acttgggctt taacatcaat 180
gttgctttga tgttgttgga tataaatagg aatttttaca cattactatt gtgaatggtg 240
aatgttcatg tatgacctac ttgtaattaa cttgagttgt agtccacagc ctcaggacaa 300

<210> 762
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 762
aattccgttg ctgtcgaaac gcagtaatgc atgaagagtg ccgggcatgg tgctgagccc 60
tgttcctgct ctccctccag ggctgctgag ctagaattcc cacctatgtc tttccaaggg 120
actgttcacg gcttgggact tggtctctgt cctgccccat cctcgtcact tgagaccacg 180
agccctggtt cagncaccna gngaagccac ccatcggctc atgaatcntn aanncttnan 240
gcancnnatg cctngcngcn tggaatnanc ttanngnttt gacctgatgc acc 293

<210> 763
<211> 300
<212> DNA
<213> Homo sapiens

<400> 763
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gtgactcctg aatcttgagt ccagggcttt cgccactaca gtacagtggt tttctttct 120
ttggtcgggg agagtgggct ggaatggaga gtgaggccca caaattacct gcagagacgt 180
ggaggcgtga gggagaacat gcttgttaaa tatgcaggta gattaggaga caccaaacag 240
agattcagac acagtaaggc tgggatgaga tcctcgaagc tgtgttttaa caaactccac 300

<210> 764
<211> 300
<212> DNA
<213> Homo sapiens

<400> 764
aattccgttg ctgtcgcttg tcctgttgtg atcagagttt cacaaagtgc tctcagtgcc 60
taaggcaaac tggcacattc tctatgaaaa agacaattat tgttcttggt caggtggcca 120
gttggcccag ttgattttgg agcatagtgt taataaaggt tagtctcttc agatatgagc 180
cagttgactt ggctatataa atagctgctg tcacgggcag gtcagaggta tgtgtgtgga 240
tagactggat ctgtaaccac caatcagaaa tcaatcagca atcatttact gagcatttgc 300

<210> 765
<211> 300
<212> DNA
<213> Homo sapiens

<400> 765
aattccgttg ctgtcggctc tacgatggag tcaaggccag attgggctct atttccacaa 60
ccccctaagg agtagctcac cagtgtccta agtggctgtt tcctgggtga acatagtaca 120
tatttgctgt cacgctggga ataccagtga gaatctcatg catggacaga ggacatgatc 180
atctttatgt ttgtaacctc gggcctggaa cagtctcctt ttgtgttcac ttgattctga 240
aaggtcagtg ttttagaaca ggcttttcac atggttcacc aggaggccag ttagatcctg 300

<210> 766
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

<400> 766
aattccgttg ctgtcggtga gaaagtatgc cactctttaa ttagctctta taattggagg 60
gttattccct gagtagagat taaaagctgg ggaaatgttg aatcctacaa aattcttgtg 120
ttgccgtcac tccaggttgc tacaacactt tagatattcg tatgagggag tcatatttgt 180
tttacactaa cnggaaacta tgacaataan tatatgagta ncnncattat antncttnan 240
aatccaccaa gtgagnnnct gctat 265

<210> 767
<211> 296
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 767
aattccgttg ctgtcggtta ctgagttagt actgtataat gtagtgagta gtgatgatga 60
gcatggattg attattggct tatcttcttt gtttttttgc ttttgatttt ctttattttn 120
ttttganang cattgnccta ntgaacntnn aaactgaatt aaggnccccc nnnannnnca 180
cttncnntnt nccnngggaa aangcnccga accccccatnt naaanncacc agctccaaca 240
cacgantanc nttnatgagg anttggctna cnatgagaan ccccgaaaga agtaac 296

<210> 768
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 768
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ttaaagccca ttcaggttct ctcttcctga aaagaactga ttgctgtgtt tacatgaaat 120
gacattggag tcagatggtc tgttttaaag atttctatga cagcctattt tcctgagttg 180
nananattgg aggttccctg nntcnnntaa aactgaanaa cgcnnngnaa naggcnatga 240
ncgatctnct gcnnagggcn tttgatg 267

<210> 769
<211> 269
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(269)
<223> n = A,T,C or G

<400> 769
aatttcgttg ctgtcggacc cagcaaattt tttgtatttt tagtagagat ggggtttcac 60
catgttggtc aggctggggt cttaccaccc ccttgaaagc ctaccncccn ccncggcnnc 120
tnnaanagcc nnnagtntan gnnagtncna ccnnaccnnn nctanncncn gtccnnntcc 180
atgnggncnt atacccatnc atnctacncc atctctncnc ccnnncagtc atcnctaccn 240
tntctcacaa actccnccnn tncttnang 269

<210> 770
<211> 300
<212> DNA
<213> Homo sapiens

<400> 770
aattccgttg ctgtcgggtt tctgtagagg aatgtcttcc aggtgggaga agaatggctt 60
tcatttttaa caaccacaca ctataaacaa agcatcccga gagcacgggt acctagcaga 120

agaagaacga agtagccagg aaacaagttg cttttcagca tccccactga aatgataggg 180
tactttagaa agcgggtggt ggcattcttt ccacaagtac agcaagtgtc actgtggggt 240
cttaattctc tcgaatctgc ctttagaagg cagaaggcag aatgatcagc tctgctctga 300

<210> 771
<211> 300
<212> DNA
<213> Homo sapiens

<400> 771
cattgatgtg caaataatga gattccctat ctccttttag acctgggacg gcaaaaggga 60
agggaaggaa acttagcaga gtgctattga ctatagattc acatattagc aacaaaatcc 120
cgtaattctt ttggccaaca gcagctattt tggggagcag ctgtggctgt tacataaata 180
gagatgcagc caaaatttta ggccttttat cctgcttcta gcagaaaaat gcagggagag 240
tcaagtagtc tagggtttca ggttgcctcc cctcatatgg tttttggcca agtgactaaa 300

<210> 772
<211> 206
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(206)
<223> n = A,T,C or G

<400> 772
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tccgttacct gggatattct gggntnctgt agntgaacta tgacagagga accagantca 120
taatgangcn tctgatnagg ngaggcgtat ngagannatn nctccnnccn ttanctncct 180
nacantntaa attnntaata tacatt 206

<210> 773
<211> 300
<212> DNA
<213> Homo sapiens

<400> 773
aattccgttg ctgtcgaaaa aggtcattcc cagtcttttt agactcctgt tttccaggga 60
gacatcctct gatcctttga gcttcatgat gaatcacctg aattctgtag gcgacacatg 120
tggactagag cagattgata tgtttatact tggatactcc cttgaagtaa agataaaagt 180
gttcagactg ttcaagttta actccagaga ctttgaagtc tgctacccag aggagcctct 240
cagggactgg ccggagatct ccctgctgac cgagaacgac cgcactacca cattccagtc 300

<210> 774
<211> 300
<212> DNA
<213> Homo sapiens

<400> 774
aattccgttg ctgtcggtca cttatgccta taagcgggca tacaacaggg gcacaataaa 60
tgtttgttaa gtgaatgagg gctttgagaa ctagatggga tcttagtcca actctcttat 120
ttaacgaggt ccacagaggt tctgcgattg tctaagaaag aaggctgtgt tcatggcctt 180
tgttgtttac gtggccctgt gattctcttg gctccgtgaa agtcctgatg cagacattcc 240
ggccatctag aaaggcatgc agacaagcca tccagctggc atgatcctga gtccagcttt 300

<210> 775
<211> 300
<212> DNA
<213> Homo sapiens

<400> 775
cagagcgtgg caggagctct tggctggccc tgctgggagt ttcgtctcct agcaggtacg 60
gaaagccatg agggatgctg ctctcagcaa caattctgcc ttaacagaga aggcagacca 120
gtcctcagga cctggaggga ggtcatgttg tggacttcat agctggaaaa gaacactgga 180
ttttaggaac acggtcgcag aaagtttaga ctaagaagta gattcttctg ggttggagca 240
tatttccaga agagatgata aagttacaag gatgataaga tggtaataga tgccttgatt 300

<210> 776
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

<400> 776
aattccgttg ctgtcgattc attttgtata atcatgtatc ctcttgtgtg ctggtagaga 60
ttttaatcct gatttttcca taaaacatga gtattaagaa ataattcctg gtttggagaa 120
actggataaa tcaccctttt aaggaagaaa cactggaaat ttctgctaac accaagatat 180
tnaagagtgg acatantagg tgcntnancn cattaattga nngaatgaan gnttnnaaan 240
actntcanan cncntatnct nnnctaannc tnttcnannn acnnnatttt tt 292

<210> 777
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 777
aattccgttg ctgtcgggga agtgggccaa aggaatcagc tttaaaagcc ctaaatagtg 60
acatgccctt atatattctg tcatcctctc aaggtagagg gctgaaacct cattatgctc 120
aacttatgag gctttttgtt gtggttcctg atgctccttt gcagataata ctaatgcctc 180
aggttcagcc aggcccacca ccatgtccgg tattctaccc agaaaaacaa gaaatcaccc 240
ttccacctga tggcctttgg gttttgagat tccttatgcn tatgtgactg anagaggac 299

<210> 778
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 778
aataccgttg ctgtcgaaga tgtaaagcca cattgattca ctcagccaac cagatcaatg 60
gctcatttgc actcaattta attcatggaa agacgaaagc agagacagaa caagccaaaa 120
gtgagtttcc cttttgactt attatcactt ccacatntnn ctggggagca gattgtncag 180
agagagaaac ngnnagcnan tgtgtcaagn gttancnncn ggangaangc ctcaaaacga 240
cntaangnng nnnaagcagc nngaancagc tcnctgtggt gaacncagaa gtg 293

<210> 779
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 779
aattccgttg ctgtcgcgag gctccatgat gcagcttacg tcggggacct ccagaccctc 60
aggagcctat tgcaagagga gagctaccgg agccgcatca acgagaagtc tgtttggtgc 120
tgngtctgnc tctactgcat acnggtgcaa ntntcggntn nttttngnnn anggtngctt 180
nngtnnnntt gtantttnnn ttatntcttc tnnnttnctc tttaatatcn tnttnntntn 240
gtnctnantt ntttnnctna anancncatn tnantttncn cnngtnttct ntnctttctt 300

<210> 780
<211> 300
<212> DNA
<213> Homo sapiens

<400> 780
aattccgttg ctgtcggttt gttacagaag gagaaagtgg cagttgaagc atttcagatt 60
tgctgccttc tcctacctcc tgaaaatagg agaaagttac agctattgat gaggatgatg 120
gcaaggattt gcttaaacaa agagatgcca cccctgtgtg atggctttgg tacccgaaca 180
ctgatggttc agacattttc ccgttgcatc ttgtgttcca aggatgaagt ggacttggat 240
gagttattag ctgctagatt ggtaaccgtt tctgatggac aattaccagg aaattctgaa 300

<210> 781
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 781
aattccgttg ctgtcggcat atacagcaaa ttaaaggacc cagaaagctg gatccaatag 60
tgacctgggt acaccaatcg gaatattgaa tttggggaag tcaagggctg ggatcaagag 120
gtggattgga actaatgcca tgtaggatgg tatgactagg cancantgtg ttgttntctg 180
tntatatant ggtgtcctnc ctntcttgtn tttntccttg gtgntntnnt ncnactanat 240
agtgactcct nagtcgggnn cgctgcccct gttgaatttt 280

<210> 782
<211> 262
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 782
aattccgttg ctgtcgttaa gttgttggct cagtgtatgc tggggacaaa gaaaaactaa 60
caagccgacc tgcctttatg ataaattcta gtgtgcttac aagggatgac ttcctgaggt 120
gtgatctgnc caccttgaag aactccacan ntgannaagg ggagctgtga tancgagaat 180
tgggnnnnnn catnnggttn nancaanggg nnntnangnt naaanatccc tgantnaaat 240
gnncnnnnnn naaaaaattn tc 262

<210> 783
<211> 299
<212> DNA
<213> Homo sapiens

<400> 783
aattccgttg ctgtcgctca aacaaaaaag ggacatttat gtgcagttgg gacagcaaac 60
caagtcctgg acgtaaaatc gaataaaaga cacattcata tccaatagag accacacctg 120
tattcatatg ggaacaatct ggaatagtga tatcctcaag gggtaaaaaa tatataaata 180
tatatatata tgacaaaagg tatgaaatgc aaaaaagaaa aaaaaaggtg acagccgcag 240
ttgatgctgt gatggccgtg aagtgtcctg ggcctcccga ggcctctgac aaataaaca 299

<210> 784
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 784
aattccgttg ctgtcggatt tgtgtcttga ccaggggcca gatacagaga atgtccccat 60
catgtacatc tgccatggga tgacgcctca gaacgtgtac tacacgagca gtcagcagat 120
ccatgaggcc attctgngcc ncacngnnna tgatnnnnac accngataca ncatgntgta 180
gtgccctnct acagacantg ncnatcagtg nccncttann ngacnccaan nnanttnccn 240
nngtgtccct ttannnacaa g 261

<210> 785
<211> 300
<212> DNA
<213> Homo sapiens

<400> 785
aattccgttg ctgtcgcttg tttttcagac ctcgaactat ggagaacagg aattgaagcc 60
caggtggatg gtccaatgcc agaccatgga tcatcagcct gggacaccaa agtgccacac 120
tctcagagtg aggatgattt ttaggaagtc agctctacca ccctccatac caggaagtgc 180
aagcagactc atctcatgat cgagcagaat atgagaatcc ttttgaagtt ataagtctgt 240
atggatttgt agcacatgtt catacaatta gatgggacca aatcccttaa tttattaaga 300

<210> 786

<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 786
aattcgttgc tgtcggaagt tattgctttc caggggtcac tctggcttcg actccgtcgc 60
tctcaattcg tcaccaggag gaagacggag ctggctgccc agcccaaagg cccatgaggg 120
gatgcagtta tgggctctgt cgccgtggat tgttattttg tgtcagtann taatncntnt 180
tgngcnnaca tgngnaagaa ncgntcnntg gnaananctg ttccnntcga agattncntt 240
gagctnnnaa nccnttgnnt nt 262

<210> 787
<211> 300
<212> DNA
<213> Homo sapiens

<400> 787
aattccgttg ctgtcgcaag ggtcttctct ttcactcaag ctgccattct cctagccatt 60
tgtggcttga caccccaaga gctttattct ctcttttcat tgcttgagtc caccaagata 120
ccaagttagg tcacctttta ttttaaatca gccccaacga gggtcccctc cttttcactt 180
ttactcctct gctctaatcc aggtcttcat aaatttttgg gcttttagct gatttccctg 240
cctgcctctt tcaaagccct ttacccactg cggaatcata tttaccatgc aggactgcca 300

<210> 788
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 788
gacaacttca aaaacaaatg agaagcccaa ggaactgtga gcaattaaaa gcaaaccgcg 60
acacccttg tctccaccac acatagtgta ctttggaagc acaacgtcca ggctggtacc 120
gcagcgccat gcccattcct nttntnattc nttggacact tcaatttcnt nnatannntt 180
attanntnnt gntttnattt tannenntct gntngctntt taaatttnnn ntntcntann 240
ngttntnnan ntnananata ctntntnttn nactnntatt ttaca 285

<210> 789
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

<400> 789

gtccgacgcg cctggctagg agcgccgacc gcagggcctc tacggacctt actagaaaaa 60
tgaaacctga tgaaactcct atgtttgacc caagtctact caaagaagtg gactggagtc 120
agaatacagc tacattgtct ccagccattt ccccaacaca tcctggagaa ggnttggcnt 180
ngagnnctct nngaangnnn nnncnnngnn tggganntnn actgtctntt ncattngtnn 240
tntctttgan tttctattnn gncacg 266

<210> 790
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 790
cctggcantt tnccananat ctctaantnc gaagctgtcg aaagaccaca agtttcagag 60
catggagaca ttcctgctga atcgccttct cacctcctcg gcaattgctc attctagggt 120
tgggcatcat agttggtcag tcttaattcc catgccaaag gacaaacagg tgtgacattt 180
ggatagatga atactgggat tggctctgga gcatgtgttt tgagttgaac cttgcagtcc 240
tttctctacg cccgtggatt ttgtggaaac actttgcaat ctctttgtct tttttttttt 300

<210> 791
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

<400> 791
aattccgttg ctgtcggccg ctctctgtaa gtgtttgctt gtgcaaaagg gaatagtgcc 60
gtggaggtgt gtgtgtccat ggcatccgga gcgaggcgac tgtcctgcgt gggtagccct 120
aggacgcaga gtgaggccnc canccanagt cagacccttt gnacctggna catngtanca 180
ttanacactt tatatacctg agccnatnag ccntgtncct caancancan ccctgacttg 240
gatatgnnga anaggacnan tttggngcnt cnnatactnn tttngcttac tc 292

<210> 792
<211> 300
<212> DNA
<213> Homo sapiens

<400> 792
aattccgttg ctgtcgctca ctacctttgg accagccagg gctgtttata agtgctaaag 60
cccgaacaaa ccaaagagtt ggggagaaag gcctaactaa cagctgagtg attgtctaac 120
agactgtctt ttaggccagt gactctggca tagggcaggc tgcatagcca gcaacatccc 180
ttaccacagg tctagtgatt cctctgggct caaatgtgga ggctacacac ccactcctta 240
gcagaggttg gcctggcacc tgctggtgcc ccaagaacta tggcatggtt agaccctggc 300

<210> 793
<211> 300
<212> DNA
<213> Homo sapiens

<400> 793
aattccgttg ctgtcgtcca ttctttggac acccaaactc agccccctta aagagtggaa 60
acaaaacaag ctgcactttg cagaggtggt aaatgaaagg actcttggcc taacttcaag 120
agtcccctgg ggtttgaagg ggcaaagttt gagtctggat ggaacctggg ctgaggtacc 180
ttaagcttcc ccccgcaaca ccccagcctc agggattgcg ggagttgtca gagatctgat 240
ggatccgaaa ggggcagggc caggggatta ggtttggggt cagaggttct gttttccagg 300

<210> 794
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

<400> 794
aattccgttg ctgtcgcggg gaagtggaag cgccgggccc tgctgcgggg gggaggtgtg 60
ggaggtttta cnanatggga cttgggtata tttnttatta aantnattat nantnttnta 120
tnactatntt ntnatnnnat atnttttant ntnttcctta cnnttnttnc tnttaaattt 180
ntttnctata ctntnttan ntntgntatn tatttttttn tatnnttnta nttatattaa 240
tntntttac atatnttaaa 260

<210> 795
<211> 300
<212> DNA
<213> Homo sapiens

<400> 795
aattccgttg ctgtcgcctg tatatcccct aaactcctca cctatatcac aaaaacctgc 60
caaggcagaa tacattccct tgggaaagga gctttggcgg gcaagcaggc atcgggtccc 120
atctgacacc agcgtgatcg ccacaggagc catctaggaa aggggaatgg aaactgagat 180
gctggcactt tgggccctgc caatgagcta aagcagtgta taattaagga attgcacagg 240
cttccttccc caggacaaag cagcgcacag tcttcttgga ttactgtcct cttacagcaa 300

<210> 796
<211> 300
<212> DNA
<213> Homo sapiens

<400> 796
aattccgttg ctgtcgcttg ggtataacct aacccaaaga aaagtggcat gtgctgaaac 60
tgagtgtcac agagctgtga ggttgggtct ttgggattag cttcattttc cagggtttgc 120
cctttgccct tcaaccaaag gacaaagtca tgttaacagc tgctactaag tctatatgcc 180
cattcgttca taccacaaaa caggcatctg actcctctgg tcaccatgga atcaaggcac 240
tgtcaagtgg tggggggtcc acaggcacag tgggcttcac tctggaacag gattactggg 300

<210> 797
<211> 300
<212> DNA
<213> Homo sapiens

<400> 797
aattccgttg ctgtcggcca ggggaggtca aggctgcagt ggactgagat tgcaccactg 60
cactccagcc tggataacag agtaaaatct tgtctttaaa aaaaaaagta tgactcagca 120

gatggaggag cctcccattt ggtctttcct ttccgtttgg tttgtcttcc aaatctcctc 180
cagcctgctg tgtattcctc agcaactcac ttcaagcacc agcctgatcc tgtagatgaa 240
ccctgcataa ctttctccgt caacaaacac ctgaggatct gctgtgtccc cagtactagg 300

<210> 798
<211> 300
<212> DNA
<213> Homo sapiens

<400> 798
aattccgttg ctgtcgactt ttcagaatgt tcatgatttt aatgagctga aagatagaga 60
ttcagaaaca cgagttgatc tgaaatttat gtacctggat cctccaagag atcatcacac 120
cttagagatt cagcagcaag ccctgctaag agagcagcag aagaggctga acagaataaa 180
aatgcaggaa ggtgccaaag ttgacttaga tgccatccca agtgctaaag tacgagagca 240
aagaatgccc agagatgaca ctagtgattt cttgaaaaac tcattattgg aatctgatag 300

<210> 799
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

<400> 799
aattccgttg ctgtcgggaa agtagcaaaa gagtaggaga tggggaaata gggatgggga 60
gagcaagccc cgcatgtcca tggcgagtca ggtggggagc acgggtggaa gggccngctg 120
tnnactgatn gnctnncctg tgtnttcnag tgagannten gtantcnggg tgcactccnt 180
gctgtacnct cnnccctatn ctgngnctac tctgatnatg antcnaccct tatnngnctn 240
nctgctcntt tgctctcng 259

<210> 800
<211> 300
<212> DNA
<213> Homo sapiens

<400> 800
atttttagtt tttcgagtac accgtcccag aaagaaatac gctataacac ccaccagcct 60
gagggctgca ttgctgtgga agcaggaatg gataccctta tcatgcatct ctgcgaagaa 120
actgccccag agaatcagaa gttcatcttg caggaggatg gatctttatt tcacgaacag 180
tccaagaaat gtgtccaggc tgcgaggaag gagtcgagtg acagtttcgt tccactctta 240
cgagactgca ccaactcgga tcatcagaaa tggttcttca aagagcgcat gttatgaagc 300

<210> 801
<211> 300
<212> DNA
<213> Homo sapiens

<400> 801
aattccgttg ctgtcggcca agggctccac tccagtccct tgcctgtcaa tcagaagatg 60
ctcagaggag aggcttctgc atcatcttca tcttgacatt ccaagagcag taccgggtca 120
gcatccacaa aagcacactg taaaactggg aactgtgtct tacccttcct gagtgaaaag 180
ggaaagttta tgcctcagcc tgaggcaggt gggcccottg ccatgcacac ctttgtcctg 240
cagccaggga tccacttggc tgggctcaac ccttccccgt cagggacgac tgcacagaaa 300

<210> 802
<211> 300
<212> DNA
<213> Homo sapiens

<400> 802
ggttcctgcc ggctgtattc gggccttgga ctggactgag aagctacggt gcggatccag 60
ctggggtgga gaccatccat ggaaaagaac ccccctgatg atacgggccc cgtgcacgtg 120
cctttggggc atattgtggc caatgagaaa tggcgcgggt cacagctggc gcaggagatg 180
caagatgctg cattctttat gtcaccgaag ctgatttggt ggcaggaaat ggctacagaa 240
agaggcttgt tcgggttaga aattccaata atcttaaagg aattgtagtc gttgaaaaaa 300

<210> 803
<211> 300
<212> DNA
<213> Homo sapiens

<400> 803
aattccgttg ctgtcggctg gtggcaccct cccctgggcc ggaagactgg gaattcctgc 60
taagtgtggc ttctagagtg tttgtgtgta ccccgcttct gactgcctag ggcgagtggg 120
catcctgtca tcatctccac tgtcccaagc agtcactagg tggcggccgg gccagctgga 180
acccagccca tcctctcagg cagagcaggg tggtccgggc acactgggcc tgcctctcca 240
gcctcaggat gctcttgttt attctgggct cagaccctcc tcttgtacgt ctcatcacag 300

<210> 804
<211> 300
<212> DNA
<213> Homo sapiens

<400> 804
aattccgttg ctgtcgagag gtcagtgggt ttgccgccgt gcatatcacg cccttccccc 60
acgttccccc taccccagga cctccttggg acttacacgg aggcccgagg tcagaaagca 120
cttctggtcc aagctgaggc aaggccgccc cccatccccc accccctgcc tgcctcgcca 180
ctcaacaccc tggcgttccg aacaccctcc atggccaaag tgaccactcc ctgtctgctg 240
aagtgttttc atccccatgc tcacatggac acccagccac cagcgtggtc tcaggcacat 300

<210> 805
<211> 300
<212> DNA
<213> Homo sapiens

<400> 805
aattccgttg ctgtcggccc agggcctagc aatgtatctt caggaaaacg gcattgactg 60
ccccaaatgc aagttctcgt acgccctggc ccgaggaggc tgcatgcact ttcactgtac 120
ccagtgccgc caccagttct gcagcggctg ctacaatgcc ttttacgcca agaataaatg 180
tccagagcct aactgcaggg tgaaaaagtc cctgcacggc caccaccctc gagactgcct 240
cttctacctg cgggactgga ctgctctccg gcttcagaag ctgctacagg acaataacgt 300

<210> 806
<211> 300
<212> DNA
<213> Homo sapiens

<400> 806
aattccgttg ctgtcggcct gcccgaggtg cgggccgcgg gtcagggccg cgcatggcat 60
ccccgacctg gcccaaaagc tccatttcta tgaccgctgg gctccggact acgaccagtg 120

ctgggattat aggcatgagc cactgtgcct ggtcctgctc catgaatgta gagaagagag 180
gcatttccaa gaccaggtga ggaatccaca tggggtgcac cctaaggcag aaaggagagg 240
ggctgagcat gagaacgagg aggcgctggc tggctgcagg acaggaaatc atagaggtgg 300

<210> 807
<211> 300
<212> DNA
<213> Homo sapiens

<400> 807
aattccgttg ctgtcgctcc cctcccagga gcctggggat gccaaacatc cagaatgtga 60
tgggacaaga tgggggcagg ggcctcacct ccctgcagag gtccggccag gtctccttgt 120
ccctggacaa tctcctgagc ctctctgctt ggtggagcag gcacctgtgt gcagaattcc 180
cactgtggcc agcacgagga agtcttttct agtgaaaatg tgtcttgtgg tcaggaataa 240
ttatcctttc ccctgtagcc accaaggagg gcaaatagag aaaggtaacc taattgaagg 300

<210> 808
<211> 300
<212> DNA
<213> Homo sapiens

<400> 808
aattccgttg ctgtcggaag accgccagcc tgatagccaa cagttgtaaa gcagtctctg 60
ttctaggatg tcccgaccca gtggtgcatg agatcgccta tcagtacgga aaaaatgtag 120
gaatagcttt tcagctaata gatgatgtat tggacttcac ctcgcgttct gaccagatgg 180
gcaaaccaac atcagctgat ctgaagctcg ggttagccac tggtcctgtc ctgtttgcct 240
gtcagcagtt cccagaaatg aatgctatga tcatgcgacg gttcagtttg cctggagatg 300

<210> 809
<211> 300
<212> DNA
<213> Homo sapiens

<400> 809
aattccgttg ctgtcgccct agtcttccat tagctctttc actggaattt gagtatattg 60
tacatgaagg ttggttttca atttgaacgt ctagaaagat actcatttct aatacctatg 120
cactgtagtt tcaggtttac ttgcagacac cctggtaggg ttaagaggag gatatttcca 180
agttatttta aattgagttt acttttaact ggggttcttg actctagtgt aattgctcca 240
acaactacgt agaagtcaaa atgagtgact ttagtgaagc ttctgtactt tacaatacat 300

<210> 810
<211> 300
<212> DNA
<213> Homo sapiens

<400> 810
aattccgttg ctgtcggaag ggtgctgcta ttgggtctat ggaagcttat ctatcaaagg 60
agcaaacgtc cagaaaagtg tttataaagc aaatgtattg cctctgttta gagatttgcc 120
cagctgttcc agttttaaac attaaaaaat aaactcagtt gccatggcaa aaatagaatg 180
cacagcttac ttataatttt ccatgcagta tagcataagg atttttgact tgaaacaacc 240
aaagaactcc tccttaacga gacagttcaa attcctgaat tagtatttct tgactatcaa 300

<210> 811
<211> 300
<212> DNA
<213> Homo sapiens

<400> 811
aattgttgct gtcgctctgt gtaagggctt gtctccctcc cagtttttct tttgctccac 60
gtcattttgt caggctggtt ataagccgga ggcagcttta accagccccc agggatgatt 120
gtgaaggagg cccctcccct tgtgaggagg gggcactcct ctccagcccc tggtaccaca 180
gtcctcacga tggtgcagtg atttctagcc aggcgtcaag atgcgctgct ttccctctcc 240
tgctcatccc ttgttggcag ctccagttca ggccgtggag ggacgtgatg ctgggctgtg 300

<210> 812
<211> 300
<212> DNA
<213> Homo sapiens

<400> 812
aattccgttg ctgtcgcatt aactttcagt ttccccatgt tacttttgta acagggattt 60
gagaccttaa actgttcatc aaagtaagcc ctaatagaaa ggcagagcaa taagagcaca 120
tgctgatgta attctccttt gcaaggagaa tttcatttag ttccattgtc atatagacca 180
gtgtcacccc ttttccctga ttcctactga taacaactat ttttcagtgc ctttgaagat 240
actgaccctt ctacctgccc agctgttttt aaacagctgg agcgtgatga tggtcataaa 300

<210> 813
<211> 300
<212> DNA
<213> Homo sapiens

<400> 813
gctagatttt cccatggtgc cgttcctttg cagacagagg attcggagag ccctaggaga 60
caggcctgca ggaatgtgct tcattagctg cagtgcgctg gtgctgccta acagaacgca 120
cactggctgt cactaggaag cgccatacgg ttgctatcac ccaacatggt gaaagggtga 180
tggatttcac tgtgaatatg ccaaggacac ctctaaactt cccccatgtc agtcagatga 240
agttactact atatttcacc accctgcagg taactgaaac tcaattaccg ctgccgctca 300

<210> 814
<211> 300
<212> DNA
<213> Homo sapiens

<400> 814
aattccgttg ctgtcgcagg gtggctgcac aattggcccc tctatgctat tgaacccccct 60
taagggaggc tccttgctag ccctctggtt tgtggtaatg tctgctggga catattttac 120
attttgcatg aagccatgtt ggagattcct ttagctaaat ataacatctg gagaaagtag 180
cctcctgttc acagcttaaa aacagactga ctttgtctag gacgagaggg aaaattgagc 240
ccgtttggtg ctcctgacat ctcctttcat gtaatgaaag ctcagtctgt ctaacctctg 300

<210> 815
<211> 300
<212> DNA
<213> Homo sapiens

<400> 815
aattcgttgc tgtcgcactg ctttagcgag agagggttta cttaggaaga attgggatag 60
aaattcccag ctgagagaac ttagctgtgg gctcctcagc tactgacttc ttagctctta 120
atccccttag aatttcatct ttctcgatga gcaggctctg cacccactct ttttttgccc 180
cccgccctca tcctggagtg tgagggtgct cgcccgtact ctcagctgcc tctcagggac 240
tgcactgttc ctcttcaccc ccaggttcct gctaagatcc cacgggcgag ggcttgctct 300

<210> 816

<211> 300
<212> DNA
<213> Homo sapiens

<400> 816
aattccgttg ctgtcggtgc tgtcatcgag tcccaggtca catcgtcaca ctcatcagcc 60
ctctgcggcc agtgtcccca cctcctgcca tgtttcccta gtagcttggt ctttatccag 120
aactgtgagg ctgctgtggg gtgcagcgtc cttaggaggg tcctgctgga gcagtggccc 180
taagtgagtc tggactgtgt gaggcacccc agccctccac ggcaaggccg gggcctgggg 240
gtgctggtgc ctgtgtgcag cctgaaggct gccctcttgc tgcttcagcg agtgggaagc 300

<210> 817
<211> 300
<212> DNA
<213> Homo sapiens

<400> 817
aattccgttg ctgtcggccg tctagtttgg tgtgcaagga tgatgtttgg agcaataaga 60
acgtcgcttt gtttttttcc ttttatagaa agagcaaggt tcagggtagg cattagggcg 120
ggtgtaggtg tagaaggaac tggattattg gtttattgca tttagaatgt cagtctggtc 180
cttgcggtgt caagatgaac tcacgtggga tgttaattca cttgtaaaac tgagggttat 240
acatatgtgc tcaggtattg ggctgaacag gtgctttggg ggtgctttta tgtgcccgac 300

<210> 818
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 818
aattccgttg ctgtcgagcc agttgaattt atggaatcta ccaactgttt agggccctga 60
tttgctgggc agtttttctg tattttataa gtatcttcat gtatccctgt tactgatagg 120
gatacatgct cttagaaaat tcactattgg ctgggagtgg tggctcatgc ctgtaatccc 180
agcacttgga gaggctgagg ttgcgccact acactccagc ctgggtgaca gagtgagact 240
ctgcctcaaa aaaaaaaaaa aanttcnntn tttacaancc taaactnttt aaaatccaaa 300

<210> 819
<211> 300
<212> DNA
<213> Homo sapiens

<400> 819
aattccgttg ctgtcgaagg ttgcgtagct aataagtggc agaactgaca tgcaaaacca 60
gtctgtctgc ccccacagat gcatgttctt taccatcacg taggtcaggc caggatgtca 120
aggagagcaa ccccgaacta gtcctggtga tttagactag agcgtctttc actgctgtga 180
ttccttcatt ggcactttct tccagttgta cagtgtctgt ctttgcttgg tctttgcttg 240
ttctaccctt agtttagcag atatccctct ctccatgaac aaggtgagtg agctcttttt 300

<210> 820
<211> 300
<212> DNA
<213> Homo sapiens

<400> 820
aattccgttg ctgtcgccaa acaaacattg cagggttgat cctagtcttg aaagttcggg 60
cctttcctct tggcctgttt ctggaggaaa tgctcatgag gtgggtgaga ggcggatgac 120
atcctgtcgc tctggcctca ccctggggat gccacatgac agcaccgcag cattttcaat 180
aggtgaccca cctgcgagga ggaaggaaaa atgtgcccaa ggccattatg gagaacaaac 240
acctatgcag ttggagaatg ctgaagacac ccaagggtgt tgtcctctcc ctcctgagag 300

<210> 821
<211> 300
<212> DNA
<213> Homo sapiens

<400> 821
aattccgttg ctgtcggcac tggtggcaag aggctgctga tccccgttgt gcctggtgtg 60
gacagcctca actcggccat ggcggcaagc atcctgcttt tcgaagggaa aagacagctg 120
cgggggaggt ctgggaagtt gagcagggac aggagttacc actgaggacg cagaagtgac 180
ttctgcttga ggacgtctgc agctcctcct acaccagcac actggtggga ggctggcgga 240
gtcagtgact atggcccacg ttcaggagga aggtgtgatg ccgtcataca gttacaggaa 300

<210> 822
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 822
aattccgttg ctgtcgctga cggcgctttt gtctccgggt ccagaggcct ttcagaagga 60
gaaggcagct ctgtttctct gcagaggagt agggtccttt cagccatgaa gcatgtgttg 120
aacctctacc tgttaggtgt ggtactgacc ctactctcca tcttcgttag agtgatggan 180
tncctacagg gcttactaga ganccnatcn ccngngacct nntggancan cnnaanccnn 240
ntancgaacn nagagcncac caanaggcct naccaccatc catcc 285

<210> 823
<211> 300
<212> DNA
<213> Homo sapiens

<400> 823
aattccgttg ctgtcgcaaa tctttgccac ttctaaagcc caaaaattac tattccggat 60
catagattgg ttactgctgc cacatgcagt attacagcaa gagaaggaac tgcctgcacc 120
tatgttgtca gcaattcaga aaagtcttcc tttgtatctc cagggcatgt gtatcgtgtg 180
ttgtcaatct caaaatccga atgcctattt gaatcaattg ctagggaatg ttattgagca 240
gtatattggg cgatttcttc cagcttcacc atatgtttca gatcttggac aacatcctgt 300

<210> 824
<211> 300
<212> DNA
<213> Homo sapiens

<400> 824
aattccgttg ctgtcggaaa agagaacaac atgagattaa aaatgagact aaaaggagta 60
gcactgtaga tgggttaagg aaaagacccc tcatcgtatt tgatggaagt tcaacaagta 120

caagcataaa agtgaaaaag acagagaatg gagataatga tcgactgaag cctcccccgc 180
aggcaagctt taccagtaat gcctttagaa aattatcaaa ttcctcttcg agtgtttcac 240
ccctaatttt gtcttccaat ttgcctgtga acaataaaac ggaacacaat aataatgacg 300

<210> 825
<211> 300
<212> DNA
<213> Homo sapiens

<400> 825
aattccgttg ctgtcgccta aactcggagc agtgggaccc tgaagatgtg aacctcgaag 60
gcagcaaaga aaatgtggag ctactgggat cccaggtgca ccaggactct gtgaggacag 120
cacacctgag tgatgatgat taacaccttc tggagccagc tcatcagctc agagcccagg 180
gtcaggagtt cgttcagtaa cgcagcggga atcaatctgc actgacaccg cggcaggaac 240
tgaagctgcc ctggcaagtg aggaaccagg agccgtcact gagtgtggct gggctacatc 300

<210> 826
<211> 300
<212> DNA
<213> Homo sapiens

<400> 826
cccacactcg agcccacccg gccggccagc tttagaggag gggaggagca gggcgagttc 60
acattattcc ttttccatcg gaagtggcgc tcgtgcattc aactcgttcc cgctcatgga 120
acccctcttt aaaaagacgc agggcacctg tgagcgcagg agcgagccta aggccaccca 180
gcggcagcgc ccgtgtcctg ggcactcagc gtgctgggca gagcaggtgc gatggcccca 240
gtcctagcag ccctcgccca tgtcctgtgc ccttacatgg ctcccggact gtgcagggag 300

<210> 827
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 827
aattccgttg ctgtcggttt ttgttttaag agagtataag gtgtctcatt tgagtctttt 60
tcttacctag ccccctctta tcagtaaaac aaaggacttg ccatggttca cagcaatgtg 120
ctacgatcca agatatcagc caaggagccc acttagggga gaactaggtg tccagatttt 180
tgtatgtgtt gntttttcttg ggggatgggg tggggtttcn nntccnntat tnnnantgtt 240
tnncnnnnan ctntgncnct ntacanc 267

<210> 828
<211> 300
<212> DNA
<213> Homo sapiens

<400> 828
aattccgttg ctgtcgcatt ttcaacaaaa catccctgga gtcagatttt gagttggggt 60
gggctaatca gggagtcggg gctctctgcg tgatgtcagt tctatggcta actggttttt 120
ctaaaccagc cagctgccta tcaaaacagt acaacttttc taggaaatgc aattggcaaa 180
gacacttacg atgctgagaa gtacacaagg tgaaactgct ccagtttttc tcatagcagg 240
gtcagcagga aagcaagtgg tgcccctggt cccatctcac acaggtgaga ctgcaccgag 300

<210> 829
<211> 300
<212> DNA
<213> Homo sapiens

<400> 829
aattccgttg ctgtcgggtt gttgaaagtc cagatttttc caaggatgag gactacttag 60
gaaaggttgg aatgttaaat ggaggccgcc gaattgacta cgttctccaa gaaaaaccaa 120
tagagagttt taatgaatac cttttcgctc ttcagagtca cttatgctat tgggaatctg 180
aagatactgc tctgttacta cttaaagaaa tttatcgaac aatgaacatt agtccagaac 240
agccccagca ttgatcaaac ttcagtttta ctgtactttc ttgtctgcac agaaagtccc 300

<210> 830
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 830
aattccgttg ctgtcggtcc atcttcctct tctctgcccc tgcatttcca tcccaggagg 60
accactgggc acaaggaaca tcagaaacca gggagcagtg tgcattggga ttccttccag 120
acgctgagag ctgagaagtc gtcccccttt cataaccttg ctcagactca ggaggttgag 180
gcagaagaat cgcttgaacc caggaggcag aggttgcagt gaaccgagat ggcgccaact 240
gcactccagc ctggtgacag agcgagactc cgtctcaaaa aaaaaaanca aaccaaaa 298

<210> 831
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

<400> 831
aattccgttg ctgtcggcag ctagtaattt gccttctgga ttcctggcac ctgtgtttgc 60
tctgtttgta ccattttact gctccatacc aagagtccaa gtggcacaaa ttctgggtcc 120
gttgtccatc acaaacaaga cattgattta tatattggga ctgcagcttt tcacctctgg 180
ttcctacatc tggattgtag ccataagtgg acttatgtcc gntctntncn acgacnactt 240
gatgaccaag tntgtcatna tgngaatgaa taactactan agactaaact at 292

<210> 832
<211> 196
<212> DNA
<213> Homo sapiens

<400> 832
aattccgttg ctgtcggttt atatccagga tccgtgcctt tccaccgggt gtggtgggcc 60
cagaggcagc caaggagtgt gctcttctgt ccagatgagc cttggagccc agaatggaaa 120
acaaatcaag catcggccct aagaggaact gaaagcagcc acccaactct ttcccagggc 180
cctcattctg aataga 196

<210> 833
<211> 300
<212> DNA
<213> Homo sapiens

<400> 833
aattccgttg ctgtcgatcc cacgtatatt tttcacccaa gatgtcggat tactcttccc 60
aatgatgaga cgcgtgtgaa tgcaacgatg gaagatgtga atgactggct gactgaactc 120
tatggcgatc agcctccatt ttctgagccg aaattcccta cggagtgctt ctttctcacc 180
ctgcatgctc accacctctc tattctgcct agttgccgtc gctatatccg cagactccgg 240
gctatccggg agctcaatag aactgtagaa gatttgaaaa ataatgaaag ccaatggaaa 300

<210> 834
<211> 300
<212> DNA
<213> Homo sapiens

<400> 834
aattccgttg ctgtcgattt ttcattatgt ctacggagga gtgtctctgt tatatcagta 60
ggaaatcaag gtggcttttt cagagactgt gttggttcct ttcaaatatt tgaaacactg 120
acagaaggag acattttaga tttcctcaaa gtttacactg cccagttttg gggggaggca 180
tgcctagttt ctttgaaact ggctatgttt tccttaatac ctgatttgcc tttctctgta 240
atccttaaaa taaaatttgt taaaagtgtt cttcattatg gaaacaatat atatgtggta 300

<210> 835
<211> 300
<212> DNA
<213> Homo sapiens

<400> 835
aattccgttg ctgtcgttta atactttttt ttgctaagtg ctgctgggaa acacatggag 60
gagaacaaaa cccgacaagc ctggtgctgc tcttactgta tctgtggggt ggggaatggg 120
gaagttctga aaatttacag gtgtgtctca gactaaaggg tttcaaaaca ctgtgctgaa 180
gcagtgcgtg ttgaggtaga aggcacagga gtgttcctgt ggttgggaga gatatcctgt 240
gtccagaatt tgaggcagga gatagaggtt ttgctggtgg gattgtggtg agactcctag 300

<210> 836
<211> 300
<212> DNA
<213> Homo sapiens

<400> 836
gccccaagga gtgctagctg agggtggttg ctggggtggt cctcatggac agtgaggtgt 60
gcaagggtgc actgagggtg gtgggagggg atcacctggg ttccaggcca tccttgctga 120
gcatctttga gcctgccttc cggtgggagc agaaaaggcc agaccctgct gagttagagg 180
ctgctgggat ccactgtttc cacacagcgg gaaggctgct gggaacaggt ggcagagaag 240
tgccatgttt gcgttgagcc ttgcagctct tccagctggg gactggtgct tgctgaaacc 300

<210> 837
<211> 300
<212> DNA
<213> Homo sapiens

<400> 837
aattccgttg ctgtcggaga tggcggagtt ggacatcggg cagcactgcc aggtggagca 60
ttgccggcag cgagattttc ttccatttgt gtgtgatgat tgttcaggaa tattttggtg 120

actgtaatca atgagagact gaagacagat caacatacat cttacccatg ctctttcaaa 180
gactgtgctg agagagaact tgtggcagtt atatgtcctt attgtgagaa gaatttttgc 240
ctgagacacc gtcatcagtc agatcatgag tgtgaaaaac tggaaatccc aaagcctcga 300

<210> 838
<211> 300
<212> DNA
<213> Homo sapiens

<400> 838
aattccgttg ctgtcgattt tgaggaggat ggatgaacag agaccgaacg tcgaggaaca 60
gatgtggtca ccgaagtccc cacacgctgg ctctccacac ccctcctgtt ccagaaagca 120
tgtccgaaag cagtccagga gattattaag gggtcgccat gaatccactt tggttttaaa 180
accattcccg aatgtcctag tggattgtgt tgtgctgcct aagctgccgg ctgcaggagc 240
cagagaagtg acccccgcgg gagcagcggc aggtggatct ccacggtggc tcgctttgtt 300

<210> 839
<211> 300
<212> DNA
<213> Homo sapiens

<400> 839
aattccgttg ctgtcgctgc gatcctttct gtagcagtga ttctaaagtg gcgtttgctg 60
tgtgcttgag agtaacactg cacgctgcag ggctgttgc agcagtcagt cccaggaagc 120
cacagcgctt gtaggatctg ctaggaccct gcagctgtgc tgccgccacc tctgctccag 180
agtgtcccag ccaacccctcg gaagatggga ttgccagtca gccctgcctc accatgcctg 240
caggaggctg tccagggagc aggtctgtgt gcccatcagc aggttcccat ggctgtcact 300

<210> 840
<211> 300
<212> DNA
<213> Homo sapiens

<400> 840
aattccgttg ctgtcgcaca cctcctgccc cactgccctg cttggactct gactcccact 60
cactctggga agcctcctcc tacccaacat ggacgatctc ctcatgcctg cttgggcact 120
ggcctccatt ctcgggggcc ctaatgctta gacatgctcc tcaccctctg cagctctgac 180
accctgtgtt gggatgccct cacatgggta ccccctcatt ctgcctgtgc ttcaacaccc 240
caggcccagc tgtgctgtgc gtgaataccc ttccacccca ctcaggttct gacttcccac 300

<210> 841
<211> 300
<212> DNA
<213> Homo sapiens

<400> 841
aattccgttg ctgtcgggat agacaaggta aagccgtatc tcccaatgat catagctcct 60
ttgtttcggg aactcaacag cacctattca gagcaagatc ctttgctgaa gaatctatcc 120
caggaaatca tagaattact caaaaagctg gttgggcttg agagcttctc attagccttt 180
gcctctgtac agaaacaggc taatgagaaa agggcactcc ggaaaaagag gaaggccctg 240
gagtttgtaa ctaatcctga tattgctgcc aagaaaaaaa tgaagaaaca caaaaataaa 300

<210> 842
<211> 300
<212> DNA
<213> Homo sapiens

<400> 842
aattccgttc tgtcgggttc ccctgatccc cagccccttg tcatcagcag tgcccctgat 60
cctacctcag gccccttcag gcccatccta tgccatctac ctgcagccca ctcaagccca 120
ccaaagtgtg acgccacccc aaggcctgag cccaacggtg tgcaccaccc actcttctaa 180
agctactggc tcaaaagact ccacagatgc caccactgag aaggcagcca atgatacctc 240
aaaggccagt gcctctacca ggcctggaag cttgctgcca gcaccagaga ggcaaggggc 300

<210> 843
<211> 300
<212> DNA
<213> Homo sapiens

<400> 843
aattccgttg ctgtcggctc agccagtgga aatcccgcca agcagaggca gccagtatgg 60
ggggccaggc tggccttcgt acggggagga cgaagcgggg cgaagagagg ccacacacat 120
gctcggacat caagagtatt cttcttcacc gctatttcag gtgccaagga cttcaggcag 180
ggagccctca gctccttccg ggaacctccc ccaccgggga ctgcagggcc ctgggctggg 240
ttaccccacc agctccacgg aagacctcca gcctggccac tcctcggcct ctctcatcaa 300

<210> 844
<211> 300
<212> DNA
<213> Homo sapiens

<400> 844
aattccgttg ctgtcggtct tggccggcgc tgacgcagcc atggcggagg cggctttgga 60
agccgtgcgg agcgagttac gagaattccc ggccgctgca aggggtggga gctgccctgg 120
ggtcaggtgt gagcagtgat tactggcatc tgggcatggg ctgagtgtcc attcctctag 180
agccacagtg ggctccacag aggtgagtgt ggccgtgacc ccagatggtt acgcggatgc 240
cgtgagaggg gatcgcttca tgatgccagc tgagcgccgc ctgcccctga gcttcgtgct 300

<210> 845
<211> 300
<212> DNA
<213> Homo sapiens

<400> 845
aattccgttg ctgtcgatca gtattgtggc ccaggtggac cagaccggct ccaagtccag 60
taacctcctg gatctgaaaa acccсttctt tagatacacg ggcacaacgc cctcaccccc 120
acccggctcc cactacacat ctccctcgga aacatgtgg aacacgggca gcacctacaa 180
cctcagcagc gggatggccg tggcagggat gccgaccgcc tatgacttga gcagtgttat 240
tgcagtggct ccagcgtggg ccacaacaac ctgattcctt tagggtcctc cggcgcccag 300

<210> 846
<211> 300
<212> DNA
<213> Homo sapiens

<400> 846
aattccgttg ctgtcgggtg cagctgccgc caccgccgct tctgcaaggt ctcagggacg 60
ggctgcagcc atgtcctatt gccggcagga agggaaggat cgaatcatat ttgtaaccaa 120
agaagatcat gaaactccaa gcagtgcaga attggtggct gatgacccca acgatccata 180
cgaggagcat ggattgatac tgccaaatgg aaacattaac tggaactgcc catgccttgg 240
gggaatggcc agcggtccct gtggagaaca gtttaagtca gccttttcct gcttccacta 300

<210> 847

<211> 300
<212> DNA
<213> Homo sapiens

<400> 847
aattccgttg ctgtcgcaaa atgtaagctg tgctcctctc atttttattt ttattttttt 60
gggagagaat atttcaaatg aacacgtgca ccccatcatc actggaggca aatttcagca 120
tagatctgta ggatttttag aagaccgtgg gccattgcct tcatgccgtg gtaagtacca 180
catctacaat tttggtaacc gaactggtgc tttagtaatg tggatttttt tctttttttaa 240
aagagatgta gcagaataat tcttccagtg caacaaaatc aatttttttgc taaacgactc 300

<210> 848
<211> 300
<212> DNA
<213> Homo sapiens

<400> 848
aattccgttg ctgtcggaaa atatctaaat tttgcacagg agagcaatta gagaggctta 60
aacaggaagg aagtcttcta attccttaaa agcattatct catatttgaa gagttcaagt 120
ttgatgcaac ataaactgat aaagtttgaa ataaaaagag acaggttggt aggaaagacc 180
attcatatcc tatccccaaa ctggcttaag tccactccca ctgcccccag ctaccacctt 240
tttactttat tctacctgct atttctttgg ccaccggaat aataagcctg atgtaaattc 300

<210> 849
<211> 300
<212> DNA
<213> Homo sapiens

<400> 849
gaaagaactc cctggctgta gctcctatgt aggtttaggt tgagactctg gattccacaa 60
tttttaaagg ttaccatctg aggtttctga tcatagtcta cttttgaagc agctgctgct 120
atttctttat tccattgaac accctggaat tgacataatt ttatctatca gcatttctcc 180
ccttttagtt tatttaataa ttaacccggt ctccagggca gttttcatat gaccatgtgt 240
atattcactg ctcacgaata agtttaatgt tagattacca aatttaatat agttacagaa 300

<210> 850
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 850
aattccgttg ctgtcgagaa ctttcatttc taagtacgct tactggcntc aatataagaa 60
atcactccag gcagacagaa gacctaacaa gcactgagat gacagaaaag agaattagaa 120
aagttctaca gagacacaga ttatcaggaa attgccacat ggttacattt caacttgaat 180
ttcagattct ggaaattcaa aataaggaga gattatcttc tgctgttact gacctcaaca 240
taataatgga gcccacagaa tgctcagaat taagtgaatt tgtgtctaga gcagaagaga 300

<210> 851
<211> 300
<212> DNA
<213> Homo sapiens

<400> 851
aattccgttg ctgtcgcagg tgactgccaa cagccagccc aatgtcgaat ccagaaatgc 60
accacggact tcgtgtccct gacttctcac ctgaactctg ccgttgacgg ctttgactct 120
gagttttgca aggccttgcg tgcctatgct ggctgcaccc agcgaacttc aaaagcctgc 180
cgtggcaacc tggtatacca ttctgccgtg ttgggtatca gtgacctcat gagccagagg 240
aattgttcca aggatggacc cacatcctct accaaccccg aagtgaccca tgatccttgc 300

<210> 852
<211> 300
<212> DNA
<213> Homo sapiens

<400> 852
aattccgatg ctgacgagtt tgcatctaaa taatgcctat gagttgtgtg aagctcttgg 60
ctttttttcc aacgttactt tggaactaat gagggtggat gttcattgta gtttatttat 120
ttggttcttt acatggagga atttaaaaaa tcaaattttt ctcttcacct ttatgacttg 180
acatttcctt gatctgttgg aggctaaaag taggtataaa tgatattgaa tgttgggtat 240
agtgatactc tgccatagtc cttactgcat gaagagaacg agaagtcaca caagttcacc 300

<210> 853
<211> 300
<212> DNA
<213> Homo sapiens

<400> 853
aattccgttg ctgtcgaact tgtccaagtt ccagatgacc aacaaagaca gctatagaca 60
ctctaactct gtgccaatta cccaaggcct tcagggccct gggacctatt ccatgatagt 120
ggtaccctaa ctgaacccat ttcagccact cagattgata gggtggaaaa gacagggcag 180
gtggtagcag ctgtgaagaa aagaggaaag cagaagggtg gcctataatc tacaggcatg 240
tagagaggac tacataggcc tctgttcttt gcctcaggag ccccccttcct gtcccttgga 300

<210> 854
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 854
aattccgttg ctgtcgggtg cagctgccgc caccgccgct tctgcaaggt ctcagggacg 60
ggctgcagcc atgtcctatt gccggcagga agggaaggat cgaatcatat ttgtaaccaa 120
agaagatcat gaaactccaa gcagngcaga atnggnggnt gangacccca angatncata 180
cnangancac gnctagtnan agtcanangg nnannnancn agnaacannc nngccangng 240
naananannn cgnnnnnnnn nnnaanag 268

<210> 855
<211> 300
<212> DNA
<213> Homo sapiens

<400> 855
aattccgttg ctgtcgaaac atctggccaa cctccaaagt attttcattt atcacattct 60
gcctctgtgt ccaactgtcc ttgactgttc gtggtaatgg gaaactcact actctggagg 120

tagctattcc attgttggaa agcgctgaga tttaaaagct cctcatgttg aattgaaatc 180
ccatttcctg aggtttgtgc aaccagtgta tgatatttct agaggctgcc taaaagagtc 240
cagtttagac ctgttacctt agaaggcccc ctccaaagtt agttgatctg ttcagaaaag 300

<210> 856
<211> 300
<212> DNA
<213> Homo sapiens

<400> 856
aattccgttg ctgtcgctgc acaggacact tatgccaccc tcttgccaga tgcctttgaa 60
gaaagagtca gactggtcca ccctccccca gcccctgggg ctccttgagc ctctctccag 120
ccttggcagg aggaggaaaa gcagcacctc cctcagacag ctggaaaggc cctcttcctt 180
cccagctcag tgggtccggc caagggtcac cagacgggta tttgtcccca cctccctacc 240
aaccccaaga acacactcca cacccctctt cgctgctgcg gtgtgaagct tcagcctaac 300

<210> 857
<211> 300
<212> DNA
<213> Homo sapiens

<400> 857
aattccgttg ctgtcgggag aaccaggacc ccagagaggt ggggccactg aggctggtgc 60
agttgcgctc actcatcagc atggcccgga ggctgggggg catcgggcat accccagcag 120
gcccctatga cggtgtgtga ccaggccagc ccagtgacct ttctcctgct gcacttggag 180
ggaggggaca tacacacagt ctcccatctc tcctcccctc cccctggggt ggcccaccgc 240
atgggtacag gggttccag gaatccaaat ccagcatggc ttggaggagc tctgttggtg 300

<210> 858
<211> 300
<212> DNA
<213> Homo sapiens

<400> 858
aattccgttg ctgtcgctca cgccccctaa ctcgcagggc tttgcccccc actacgacga 60
catcgaggcc ttcgtgctgc agctggaagg taggaaactc tggcgtgtat accgaccccg 120
agccccaacc gaggaactgg ctctgacatc cagccccaac ttcagtcagg acgacctcgg 180
tgagccggtg ctgcagaccg tgctggaacc tggagatttg ctgtattttc ctcggggctt 240
cattcaccaa gctgaatgcc aggatggagt ccactctctg cacctcacct tgtccacgta 300

<210> 859
<211> 276
<212> DNA
<213> Homo sapiens

<400> 859
aattccgttg ctgtcgctct taatttcttt ctgggtagta aaaagaacat gtttcattct 60
ttgcataaat acttgactct aagcattgac ctttgaaaac gcttgtatta acaatttttta 120
ttaagaaagt gcactctata taacatcttc ttgcattacg atagctcatt agccaataca 180
catgcagcta tgtaagccac aacagcagac gtcctatcct tttgcttttg tttttaaggg 240
atcaaaatat ttcaagggat accatgagga agggtg 276

<210> 860
<211> 300
<212> DNA
<213> Homo sapiens

<400> 860
aattccgttg ctgtcggttg atggccagga aagaagccag cacagggtta aagtaactcc 60
tggcattgcc caccaggggg ctggtgcacc tgctgacctc agggtcacag ttgagtcatt 120
tgccagttga cggagcaagt ttgaccttgg ttctgttgct gaagcaaatt tggaactttt 180
ctgtctcagt gtgatccact aacccacagg atcatttgga accttgaata gctctgcttg 240
gacaatgggg ttggggaata gggttgtctt tcctatgaaa atgccatctg tagaccttgt 300

<210> 861
<211> 300
<212> DNA
<213> Homo sapiens

<400> 861
aattccgttg ctgtcggggt tgcccaccca tgggagagct gctctgtatt ttcagcagaa 60
tagggtgtgt tagtgtcaga gcctttataa gaaacaggcc agtaacccag ccccccttcca 120
tggaattcat ctcattcgtt gtgacacatg atttcctccc aacccagttt ggctttctaa 180
atttagtcct ccataatggg aagtagagat ctttagttaa tggattagca agtttttgca 240
gttctgctat ggtggtaaag ggggagtagg agaataacat taagtggcaa tagtgcattt 300

<210> 862
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 862
aattccgttg ctgtcggagc tttccattac atgagctgtc tcaaagccct taagaactag 60
gtttagaagg tgcagagacc agggcaactt cagggatcca ggtagcagga aggaatcggt 120
agcctctaaa cctagttctt aagagctttc cattacatga gctgtctcaa agccctccaa 180
taaattctca gtgtaagctt caaaaaaaaa aaaaaaaaaa attncnnggg ncngtttttn 240
ncnaaaancc aanctnnana aaancсttng agnatttggn nnaacccnna cttaaa 296

<210> 863
<211> 300
<212> DNA
<213> Homo sapiens

<400> 863
aattccgttg ctgtcggttg agaagtgctg gcttattaga gactctggct gaaggtcatg 60
tgcgaactca ggaaactgct aatcacgggt cgtgtttttc agcccctgtc ttcaggaagg 120
cttaactcta agggagggtt gtttgtgtc atctccagag ctctcatttc tcctgtgtgg 180
cttggtgccg aagctcattc gtcccctcgc tgtctgttcg gcccttgtcc tacctcccct 240
ttctctttcc acgcttttgt gtaaagtagc cctctttcaa gctgctcctc tgcctttgaa 300

<210> 864
<211> 300
<212> DNA
<213> Homo sapiens

<400> 864
aatccgttgc tgtcgaatct gtaaaccttt atgacattag gaactaagaa acttagtccc 60
ttcgttaggg ggataatgaa atgtatttag tgtttgtgaa acatagatgg tatgtatttg 120

gacaattctg taactttgct ttttttattt ttatttttcc atagcttatt ggggaacagg 180
tggtgtttgg ttacatgatt aagttcttta gtggtgattt gtgggatttt ggtggaccca 240
tcacccaagc agtgtacact gcaccctatt tgtaatcttt tatccctcgc ccccctccca 300

<210> 865
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 865
aattccgttg ctgtcgaata aagtccatct ctcaatactt atactttcta aattcatctc 60
agaatattag cagccatatt ccacagttcc tataattttt actggggggg atttgtgata 120
ggaaagtcct tgggaaacat ttccaatctt tcaaaatatt atcgcggatc ttaagaagca 180
tcggaacttg natgttgnaa nggtgcatgn tanancttnc nccntctnct acgacccgcc 240
nttntnncgn ncccnccann tngacgngcc ccccnncccc cccctc 286

<210> 866
<211> 292
<212> DNA
<213> Homo sapiens

<400> 866
aattccgttg ctgtcgggtt ttgctaatct ggattcctgt ggaagggcct cctctctctg 60
ctcgtgtttt atagcttggc aactctagtg ctagttctgc aatattcgaa tttgagtagc 120
cagaagaatt tgctgccagg gtggccttgc ccttgacttt gaaatgaact cacccgagac 180
ttcagcttga tgcctccttt ggctaatgct gggttctggg ctttggccgc cgcctgcctg 240
tccatcacaa ggggccatgc tctccaatca ggacagaagt tttaacattt ta 292

<210> 867
<211> 300
<212> DNA
<213> Homo sapiens

<400> 867
aattccgttg ctgtcggggc agcccgggtt aaaggcacac tcactcaagg ccggctctca 60
tttagtggca ccgcaggtta aatgctgctc ccaggccttg ggtcccagtg accaggaaag 120
ttttgaaaat gagaacatgt gttgacccta ggactaggac aacagcgccc ttgattttgc 180
ggaagtcttc cctggaagtt gggcgtgctt gatattgaga cgctgcactt tgtgtttctt 240
gacggctttg ctgcaaattc tcacacacct tgcgcttgag taaaacccca aggattccag 300

<210> 868
<211> 300
<212> DNA
<213> Homo sapiens

<400> 868
aattccgttg ctgtcggtct gctgcacgtg ttcgcgtgcg cctgccccgg ctgtagcacc 60
ggcggtgcgc gcagctggaa ggtgttccgc tcccagtgcc tgcaggtgcc agagagagag 120
gcgcaggacg ctcagaaaca gggaaacagc cttgcagctg aggactggtg tgaaggtgct 180
gatgactggg gaagtgatac tgaggagggg ccttcaccac agtttacctt ggattttggg 240
aatgatgcca gcagtgccaa agacgtagac tggactgctc ggctccaaga cctccgcctg 300

<210> 869
<211> 300
<212> DNA
<213> Homo sapiens

<400> 869
aattccgttg ctgtcgcaga caccttctcc tatggtgggc atgaagactt ttcaaaaatg 60
attgatgaag ctgagcccct gggctaccca gtcgtggtga agagcacacg aggccaccgg 120
ggaaaagctg tttttctggc aagagataaa catcacctct ctgacatctg ccatctgatc 180
cgccacgatg tgccctacct gttccagaag tacgtgaagg agtcccatgg aaaggacatc 240
cgggtggtgg tggtaggggg ccaggtcata ggctctatgc ttcgctgctc cactgatgga 300

<210> 870
<211> 300
<212> DNA
<213> Homo sapiens

<400> 870
aattccgttg ctgtcgaaac tgtgggcatt tatctgtgag ctcgggcccc acggagggtt 60
aaagctcttc ttggaatgcc tgaacaatga cactgaagag tccaagcaac tcttggccat 120
gctgatgctg ttctgtgact gttcgcggca cctcatcaca atccttgatg acattgaagt 180
ttatgaagaa cagatttcat tcaaactgga agagctggtc actatctcct ctttcctgaa 240
ttcttttgtg tttaagatga tctgggatgg aattgtagag aacgccaagg gtgagacctt 300

<210> 871
<211> 300
<212> DNA
<213> Homo sapiens

<400> 871
aattccgttg ctgtcgctgg catttggacg ctacattctg gaaccatttt ttattcaatg 60
tgaaatccct gaacttgcga tcaagctcat tacagctgtg ggcataactg tagtgatggt 120
cctaaatagc atgagtgtca gctggagcgc ccggatccag atttcttaa cctttgcaa 180
gctcacagca attctgataa ttatagtccc tggagttatg cagctaatta aaggtcaaac 240
gcagaacttt aaagacgcct tttcaggaag agattcaagt attacgcggt tgccactggc 300

<210> 872
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 872
gtggtggtac acgcctgtaa tcctaagtac tcgggagact aaggcaggaa aatcgcttga 60
acccagaagg cggagtttgc agtgagcgga gatcacacca ctgcactcca ccctaggcaa 120
cagagcgaga ctgtctcaaa aaaaaaaaan ttaccntnnn ttttttaggn cntttcnaaa 180
taaaangggg attttttttt cntgtntaaa aatntaanct anttgttncn ttannaaaat 240
ngnatngggn gggtnagnan atgngnnctt gnaacagtnt ccnnggntcc tttatcc 297

<210> 873
<211> 300
<212> DNA

<213> Homo sapiens

<400> 873
aattccgttg ctgtcggaac catagactca atccttccta aaagctcaag gctttctggc 60
ttggtaattt tgtggggaag cacttgcagg aaaaacactt tgaaatatga agaaggaaat 120
gtgattccgg tggtttcttt ataggcccta aatcagtaca ggaagaaata ggacaagaac 180
cagagaagat taactttctg aaactttaca aacagcctaa ttcccaagta gagaaaagta 240
tattttaaag aatgaatact gggggaggaa atgaaggaag gtgaattaag ccttcacagt 300

<210> 874
<211> 300
<212> DNA
<213> Homo sapiens

<400> 874
aattccgttg ctgtcggttg taatcaagct tttccacagt tcttgaaaag tactatgttt 60
caaatttcag gaacaccagc gttagctgta aaagttgcag caatttattg gctagtcata 120
gaaaattttt gaacttttaa ctgtatttta attgatgttt attaaaaaca ctttgctatc 180
agatatttgg cataaatctg tactcttcat tatagttttg gggggagaga agattcagtc 240
agaaaactta ttcaaagtac ctaagtatta taaaggagtc aaaaaggtac aaagagaaaa 300

<210> 875
<211> 300
<212> DNA
<213> Homo sapiens

<400> 875
aattccgttg ctgtcgcaac tgccttttta agaaatttca cttcttgcct aattttcttt 60
cccttctgct atagaaatat tatgggctgg atacaaaatg gggtgacatc gagcagtgga 120
tggtaggcct tgaatataat tttgttttta ctcttccctc cccacttgaa tacagtgttg 180
agacttaaat ggtttataat gtaattctta cgcagtttaa ctatgtagat agattcctat 240
tgcaccataa tttaatactg agagattttc ttccggggat ttctgcatct ggtctctgtt 300

<210> 876
<211> 300
<212> DNA
<213> Homo sapiens

<400> 876
aattccgttg ctgtcggtgg gatggctccc cctatgaaag ttgtccagtg agcagggtca 60
aggtttaggt ttggggtacg gacatgagtg caggagcctt actctcctgt gtgttgtcag 120
ggatggataa aggggatgaa gttggagggg tttagtgaat ggttgggaca gcaaatttca 180
gagaagagca tttggaaata attttctcaa atatatattt ttaaaatcca tatttgattt 240
ttttccctca gggattccca agcatagtag agctaaaatg aattaatttg ggtaaaagta 300

<210> 877
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(279)
<223> n = A,T,C or G

<400> 877

agctaacaaa gtgagttcac agcttccaag accccaggct ttccaggcta ataaagagct 60
gaggttatag gctctcctta tcaaacgctc tttggcagct gccataacca ttccaagtct 120
agtcctagaa tagaaatgac gcggtttcag gagctgacag atggaacttt aagccttcct 180
tcctgccaca tctgaagttc tttttaaan nnataganaa ccatgacgat aaacactcct 240
tgaatgccct gnngaanagt gtacttctca naattcact 279

<210> 878
<211> 300
<212> DNA
<213> Homo sapiens

<400> 878
aattccgttg ctgtcggtct tctcaacctc ctattgttgt tataaaatct ctgtgaaagg 60
cagcagcctc ctctgccttc catattaacc agcactttcc ctgtccagaa gttattccat 120
cttacggata ttgagaagat aaatggaagt gattagaatg tactttccaa acataaaaca 180
ttgtactgta ggagtttgtc aaaggggatt aatactacca catatctgta gaagaacttt 240
atgaagaccc tgtgtatctc tcaaccttaa tgactaagat tgtagatatg atagaaatct 300

<210> 879
<211> 274
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(274)
<223> n = A,T,C or G

<400> 879
aattccgttg ctgtcgggcc aacaaggctt ccagctggat gtgtgtgtag catgtacctt 60
attatttttg ttactgacgg ttaacagtgg tgtgacatcc agagagcagc tgggctgctc 120
ccgccccagc ccggcccagg gtgaaggaag aggcacgtgc tcctcagagc agccggaggg 180
agggggggagg tgtgggaggg tctgnccggn atgttggact tcncggtcaa tgtcnttttg 240
tnntncctgg aattngcttg nannggtact tcct 274

<210> 880
<211> 300
<212> DNA
<213> Homo sapiens

<400> 880
aattccgttg ctgtcgcaaa ctttcttttg tttcaccagt gggaaggaaa aaataaatgt 60
gaaccaaagc aaactcccta catttagctc atggggttga ttccttcgct tcttgcagtg 120
gtcttggcct tttgtttgca ggccaggaga gctattggtg atacccacct ctgggctagg 180
atgtgatggg aggtgggatg taggggccca gggagaaagg gttgcagcca gcggtcaggc 240
tgggagcaga gacctccagg cgggtccctg gtgttctggg cagtcacgcc caactgccaa 300

<210> 881
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 881
aattccgttg ctgtcgcatt tatgttctat tgtgcgcact ggcaaacgta tgtttctgga 60
acattgcgat ttggaataat tgatgtgact gaagtgcaaa tcttcataat aatcatgcat 120
ttgctggcnn cgattnnagg ncnantttnc tnnnccanat natttcagtn nttgntantn 180
tntnnnangn attnnntgna tntnanttta gtgnntaant tnnnnttttn tttgcnnntt 240
tnaatntnnn tnttntttcc tt 262

<210> 882
<211> 300
<212> DNA
<213> Homo sapiens

<400> 882
cttctgtaga tactgaagaa acaattgaac cttatacaac tgaaaagatg agtcgagttc 60
ctggaggata tttggctttg acagagtgct ttgaaattat gacagtagat ttcaacaacc 120
ttcaggtgtt tactacaatc tggaggcaag atctttcctc agtatgtgct gatgtttggg 180
ttgcttgtgg aatcacagac actcctagag gagaatgctg ttcaaggaac agaacgtact 240
cttggattaa atatagcacc ttttattaac cagtttcagg tacctatacc gtgtattttt 300

<210> 883
<211> 300
<212> DNA
<213> Homo sapiens

<400> 883
aattccgttg ctgtcggttt atggattcgt gggctgcttc cacctgctag gagggtggtg 60
tactctaact cagggacaga agcccctgtc tgtgctcagg actcttgcag acctctttac 120
ctggctgttc atcttccata atcaactggt agacgttaca tccaagagga aataatccag 180
gcaaggaagc acaagctgat caagatgtgt agttctgtgg ctgccaagtt gtggtttttg 240
acagatcgtc gcatcaggga agactatcct caaaaagaga ttttacgagc attgaaggcc 300

<210> 884
<211> 300
<212> DNA
<213> Homo sapiens

<400> 884
aattccgttg ctgtcgataa aataatgcat gtaaggccct cagcatagtg cctggcacag 60
aattactgct caaatgttag ctgtcgtatt aatattgtca cttttgcaca ctgatgtaca 120
tttcctgttg accaggctca ttctttaagc attctccatg cttaaaccag ttccataatc 180
cctaggcctg tactccaggg attgagactg aaaggatcat ttatgccatg tttctctaaa 240
agcatcattg ctggaagact tttgataagt ctgatgtgtc tcaagctatt ctcaagcctt 300

<210> 885
<211> 300
<212> DNA
<213> Homo sapiens

<400> 885
aattccgttg ctgtcgagca gttctttgaa actattctca agttttgaac agaaagccat 60
gctgttaaag cgccaggctt ttgctgtctt cagtggagaa cttgatcaat accaccttta 120
ccttccactg atacaagaac gcctgacaga caatctcaga gttggacaga catccatagt 180
tgctgctcag atgtttcttt ttttcagagt tttgctgcta agaatatctc ctcaacattt 240
gacttcattg tggccaataa tggtctctga attgattcag acattcacac agcttgaaga 300

<210> 886

<211> 300
<212> DNA
<213> Homo sapiens

<400> 886
aattccgttg ctgtcgggag ctcctccggc tctcccagaa acagagcacc gtgcagaact 60
tccacagctg atcggcctcg cctcgcagat ttgccaagta tccgcttcct gtggaagcaa 120
gaccaaaagg aaatcaactg agtgggtgtt tggaagagga aggagcaact ctcgggcagc 180
ctgcccaagg gagggagcaa gttgcaattt agaagatgcc atacgtcgtg tgacagctca 240
tgagcctttc actgggctgg caattgtctg aacacttggg ttcagttgaa atatatgtat 300

<210> 887
<211> 300
<212> DNA
<213> Homo sapiens

<400> 887
aattccgttg ctgtcgtttt ctttaaggat tccccgttac tactggtgat ggagatgtat 60
gaactgtgta tgttcttcag gaattataaa gaagctgaag ctaaacttct ggagtttcag 120
aagagccttg aaacgcttaa cacagcagcc acaaaggtcc accctgtcat ccctgccatg 180
tggctggagg atcaggtgtg tttccttttg aagcttatgc tacagcagtg taagacccag 240
tatgagctgg ggaagctttt acagctcttt gttgaaagag agcatctctt ctctgatggt 300

<210> 888
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 888
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ctagagaaag agacctgatt ccatcttcaa gacatttgaa accaaagaca tttgaactgg 120
aactaaaagg ttcaactcag ataaactcct agttagattg aagagatata ttcttcactc 180
tactcttggc aggaaacaaa gcactttctc tgggagaacc tatttcttn tttantggtn 240
cttttatntt ccatggtnta nntanncnaa ttttntttga nactntatgt tttgaatttt 300

<210> 889
<211> 300
<212> DNA
<213> Homo sapiens

<400> 889
aattccgttg ctgtcgggcc attgctggtg gccccctagc ccctggctcc cgggccagca 60
tctcccaggg gccaccaacg gcttctcgcg caggctgtgc cctctctgct gagtcaagcc 120
ggaccttgct ggcgtgtgtg ctgtgggtgc tgaaaaacac cgagccggcg ctcctgcagc 180
gctgggccac tgacctgaca ctccccccagc tgggacgtct gttggacttg ctgtaccttt 240
gcctggctgc ctttgagtac aaggggaaaa aggcctttga acgcatcaac agcctcacat 300

<210> 890
<211> 300
<212> DNA
<213> Homo sapiens

<400> 890
aattccgttg ctgtcggcag ggtgtcctag gctctgagtc tacagcaggg aaacaaggag 60
cctgctctca tggagctcac aggctcaaag gatgcagcca catcattgga cctttcagta 120
ggttccctgt gctgttaaag ctcccgtgtg tgcacgtgat tcaggctcca acaattcctg 180
gccaagataa cagcacagag gccctggacc acctctgggt gttctgtaca gtgggccctt 240
gggggcctgg ctttcaccca ctggggtgca atataaaccc tcttcagatg ccagaaccaa 300

<210> 891
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

<400> 891
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ccccacccca aaaagagaaa aatgaaaaac tcatagtttg gagccaggag gcagggtgtc 120
ctacagggct gcacagccct gaggggtcag tgctgggatc tggttggttg gtttgtcttt 180
ttgtcttttt tttttttttn ncncantcnt nanngaaatt ngttttaanc cnccagngtn 240
gncnttaaac caaagggca 259

<210> 892
<211> 287
<212> DNA
<213> Homo sapiens

<400> 892
aattccgttg ctgtcgcgca gaccatggca gccgccgacg gttcgctctt cgacaacccc 60
aggacgttct ccagacgtcc cccagcccag gcgagtcggc aagcaaaggc tacgaaaaga 120
aaataccaag cgtccagtga ggctccccca gcgaaacgga ggaacgaaac ttcatttctc 180
ccagccaaga aaactagtgt taaagaaact cagaggactt ttaaggggaa cgcacaaaaa 240
atgttttctc caaagaagca ttcggttagc acaagtgata gaaacca 287

<210> 893
<211> 300
<212> DNA
<213> Homo sapiens

<400> 893
aattccgttg ctgtcggtgc catccgtgct caggtcccag tgccccaggc tgacccacct 60
ctggtcagtg agtctcctgt gcctgagtga gggatatcgg gacctggggg ccctgccccg 120
agcacctccc acccactgct agtgctgggg ctttgtgagt gttccaactt catagccgag 180
agttggagga caaggctggg gcagggccga ggaacggatt gagtcctgcc taagcctcgg 240
gacatctaaa cagctctggc tctgccagac ctcaggtgtg accctgagcc attttccttc 300

<210> 894
<211> 300
<212> DNA
<213> Homo sapiens

<400> 894
aattccgttg ctgtcggcta ctttaaaaag tcgttcattt ttgttctcag atattttctc 60
tccagtatac ctatcactgt tgaatgttcc ccccaacttc ccagtagttt ggtttttagc 120

catttcatac caatttatac ttgtgctatg ataacttttc taaagtctaa aacctaaaca 180
aatagctggt ggtgatatta ctttatgttc ctgaggtgta gaaagctctt cagaatagct 240
tctgctcttt gtgagctcca tatggcagtc aaaattaatg aaattaaaaa acaccatgcc 300

<210> 895
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 895
aattccgttg ctgtcggtca ccagtcctct tccttcactt cttgttgtaa ttgcagccat 60
tttcattgga ttctttctag ggaaattcat cttgtagagt gaagcatgca gagtgctgtt 120
tctttttttt tttttctntn gnccaaaaaa aaattngtta nccanccntt nnntgggaag 180
aaggncccnn gggnnccatt ttttngggggg ancngggnca aaaaggcttg gcnttaaagg 240
ancnttaang gtnaaaaanc ccattaaaac caaac 275

<210> 896
<211> 300
<212> DNA
<213> Homo sapiens

<400> 896
aattccgttg ctgtcgaaag acctctagac tgtgagctca gttatggaga acaaaaacag 60
cttcatagtg agtagaacac cgaggataaa cactggggcc atgggtcctt tctgaggcag 120
cgccacagaa gatctttgtg gtccttccgt agttctgtaa gtctgtctcc taagtatggg 180
tagagaatat gtagcctgtt gtgtgtctcc cactacttgt aaacagagca tcacattagg 240
ggcagggagg aggtggaatg atatttgagg tgcttaaccc tactcgagga attaattatg 300

<210> 897
<211> 300
<212> DNA
<213> Homo sapiens

<400> 897
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atatgtttct gagatcactg gaagaagcta gcagtgccag gagcctaaag ccagctcact 120
gtttggtcgt ccagtggagc aggtacagct cacagtccct aagccaggga aacctggctg 180
acttccacta aagtcaagca agcctggtcg gcctcgatta gccaaggtgt ggactcttcc 240
tccaaagccc acctcagccc acctctgcca gggcagagaa gccaaaatgg tcacattgca 300

<210> 898
<211> 177
<212> DNA
<213> Homo sapiens

<400> 898
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tggggacggt gcgacgccac tgatgctagc agctgttacg gggcatttgg ctctggtgca 120
gctgttggtg gagaggcacg cggatgttga caagcaggac agcgtgcatg gctggac 177

<210> 899

<211> 300
<212> DNA
<213> Homo sapiens

<400> 899
cttaggactg ggtcttgggg aggattagcg cctagatgtc tgattttgga gctgcagcat 60
gccaggccgt ggctgagagt atgtgagcca tgccttgccc ttttctgagg ctcagggaag 120
tggatggagc tagagagaca acaggaaaga cggtgctgaa gaacatagtg tctttcctct 180
attgtggacc taaagaggtg gggaagcaag gacaagaggc aaagagccac actgcccttg 240
gcatcatcca aagcattgtc tggttgacac caggtcctgg ttttgtgtct tttgtcaata 300

<210> 900
<211> 300
<212> DNA
<213> Homo sapiens

<400> 900
aattccgttg ctgtcggctg gcactgctgc tgtcaagcac aggctcctcg ggctcccaaa 60
cagccctggc ccaggttctg caagaggttg cgctttcctt ctgagtaggc tggagtgagg 120
ccctccagcc cacagcccag gggaagaagc acacgtgcac tttccaagcc ccacggccca 180
aagtaggcca ctgttaatgt cacagacaga aatcatggcc aacactggaa gggggctttc 240
cagtgagcgc ccctagcaag cctgatctcc cttcgtgttg actcttccgg ccagagagcc 300

<210> 901
<211> 300
<212> DNA
<213> Homo sapiens

<400> 901
aattccgttg ctgtcggaac tgtttatctt atcctcctca gtgatacatc atgaagttgt 60
gtgctttgcc taaaatgccc agttacctga aattgtataa attcttgcca aaagtgtttg 120
aacttaatac aaacttccca tctcttacct cttagcactg tgctcatctt gaggggacat 180
agtcccaatt ttgtatttta tataatactg ttagtgaata tgtgtagact tcatatggtt 240
gtgggtaaga gaatactgca ttcagataga aaagatgcta tatagctaag ttgatccagg 300

<210> 902
<211> 300
<212> DNA
<213> Homo sapiens

<400> 902
aattccgttg ctgtcggtaa ctaagagata tgcccggaaa caaaaccgat gggttaaaaa 60
ccgtttttttg agcagacctg gtcccattgt cccccctgtc tatggcttag aggtatctga 120
tgtctcgaag tgggaagagt ctgttcttga acctgctctt gaaatcgtgc aaagtttcat 180
ccagggccac aagcctacag ccactccaat aaagatgcca tacaatgaag ctgagaacaa 240
gagaagttat cacctgtgtg acctctgtga tcgaatcatc attggggatc gcgaatgggc 300

<210> 903
<211> 300
<212> DNA
<213> Homo sapiens

<400> 903
aattccgttg ctgtcgattg gaagcaaaac taataatact attagcaatg acaccagccg 60
agcagttgca gatccctctc gtatagaatc tgaaatgtgg atgatgctgt tataaacagc 120
aaagttagcc atagcaacat aggcactggt aatactgtgg gtgggtctaa gggtaacact 180

gttccctgat cttactgtca tcatctgcaa tctaagtaat gcagataata atggtgcccc 240
ttggacttga cgccaatctc ttggtcctat tagaaccatg taggcagagc tattccaata 300

<210> 904
<211> 300
<212> DNA
<213> Homo sapiens

<400> 904
aattccgttg ctgtcgaaat actcctctaa agtagataaa ctccttgagt aaagagaagt 60
ttaccatagc aactttcagt agtacttcaa agaagatagc tgtataaatg tcatcaaact 120
atactatgta gagaatctta agtgataacc agggtcacgg attccaaaca tgtcattata 180
aattgtttta tatggtgctc actggtgcat ttttcctttt ggataaggga aaacattatt 240
ccacttactg tttttgcttt aagcagcctg catatattgg ttagtttgtt cagatgttgt 300

<210> 905
<211> 296
<212> DNA
<213> Homo sapiens

<400> 905
aattccgttg ctgtcggaga agttgagtgg ttgggacagt ggtccccttc gtggtggaaa 60
gaacactgcc tcagataatg tgtggctttc ctctggtcag aggcccaaat gagtggacaa 120
gtactgtgat ttctcaagcc cctatgcagt gttagatgcc actatgaaat acgagccatt 180
gaaagagatc tcttcaactt attatttttt atcacgaacg tacatatcag ttatttatga 240
gatttttttt tttaaatatt tcattttttt tcacgacttt ttctgccatt gaatta 296

<210> 906
<211> 300
<212> DNA
<213> Homo sapiens

<400> 906
gtggtaatat ggggtgttca gtccccataa gatataatag ttcatgcagt ttatatatta 60
aagtatccag tggaactaaa tgtacaatat attcctaagt gcttgccttt ttcactgtgc 120
tgaccagctg ttcaagccac ttcagtttga gtacaacata ccaacatgac actactcacc 180
cacaaaggac agcattggga tcaggctttc agatgacctc taagattttt cccatttatt 240
gtactcttgt tacaaagtac tttttaacac atgcagtcaa tggctataaa aactattctg 300

<210> 907
<211> 200
<212> DNA
<213> Homo sapiens

<400> 907
aattccgttg ctgtcgcttt acttaaaaac tattaacagt ttttcatgtt gcactggtgg 60
taattttgaa cttggaatta ctgggtggga attccaggaa ccacagagta ttgatttttg 120
ctgccaaaat gctcttgaag cagatgtccc tgtgctcccc tggctgcttc tggctgaagg 180
ggggaggtgt gggaggtttt 200

<210> 908
<211> 300
<212> DNA
<213> Homo sapiens

<400> 908

aattccgttg ctgtcgcttg tttttccaca cagtggagct gtaactgcac taagatggag 60
caaacagatt tccaaagagg aagattcagt aaattatagt gagaattgac aagaagtttc 120
tgtttatcca ttgaccagag aagggaaata attcatcaag tttagtttga aggtctcagg 180
atgttgaaat cagactttta catcttaatc cagtgagaat gaaaaatgaa ctacttatag 240
tgtctgccca tgacaagtca tttctttgct tagggatgca aatcgtatca cacagtggtc 300

<210> 909
<211> 300
<212> DNA
<213> Homo sapiens

<400> 909
aattccgttg ctgtcgaatc attaaggcat gaaccttcca ccaacctaac tgtcagaggt 60
gcctctcccc tctccaactc cagattcctt ccccacatac ctggctattc agtatcttct 120
agcatttgct actcatttgt ccaagaacaa ggccctctac tcccctgcct ttttggttgt 180
tgttgttgtt tttgacagag tcttgctctg ttgcccaggc tggaatgcag tggcatgaac 240
acagctcact gtagccccaa ccttccaggc tcaagtgatc ctcctacctc aacctcccta 300

<210> 910
<211> 300
<212> DNA
<213> Homo sapiens

<400> 910
aattccgttg ctgtcgactt tatcctttta gattctcagt ctctttgttg cttgttgcaa 60
ataaatcatc tagcaacatt tacatttaat taggaaatct aacttgcttt taaaagttac 120
ccacgttgca tataaaaatc ttgctattcc ttgtgtcttg gctttacata agcacttttg 180
ctcatgtgac tttgcacttt gcacttattt taatcctctt taaagggcta caggcaaatt 240
ctactttgcc ataatcacac taaggcatgg aagaacaact tgcccagaat ctagcaggtt 300

<210> 911
<211> 300
<212> DNA
<213> Homo sapiens

<400> 911
agaatacaag ccaaaacatg gcttcaaaag gtcagctgca tcttcactgg attacagaat 60
tcttgctgac tctcagaaga aattgttgga gagaatagtc atacctactt taaaagagaa 120
taaatagcct ttcctaaatt cctctgcttc gctcctttcc tggcgttgct ctggaacctt 180
gttggtgtct gtgacccaat gactgttagg gtcagctagc ttcaattgcc cctgcactgg 240
aagcaaggtt tgtcagtaac accaattaaa atactaccag tgtaagtaga aggtgtgttt 300

<210> 912
<211> 300
<212> DNA
<213> Homo sapiens

<400> 912
aattccgttg ctgtcgccat ggttaggaag aactgttcca catacacctg acattggagt 60
cagtttattg atatgtttgg agattggcct ttcaacagtt ttcatatttg aagaattaga 120
aatgaagtcc gttcagattc tccaaagaac ctccagccac tggtgggga cattcttaat 180
tcacattcct atcagttggt atctcctgtc cctgaagaca ctgatgaggc ttgggaggag 240
aatcccacct ttccctgcag gggttaggc tgggcagggc agggaggtga gggcgctggt 300

<210> 913
<211> 300

<212> DNA
<213> Homo sapiens

<400> 913
aattccgttg ctgtcgattc aagcactggt ccttgggtgt ctgacctcta cattctagtt 60
tatgcaatgt ctttagagaa ttttgtgcac tggccactgt gatggaacca ttgggccagg 120
agtgctttga gtttatcagt agtgattctg ccaaagttgg tgttgtaaca tgagtatgta 180
aaatgtcaaa aaaattagca gaggtctagg tctgcatatc agcagacagt tttgtccgtg 240
tattttgtag ccttgaagtt ctcagtgaca agtttttct gatgcgaagt tctaattcca 300

<210> 914
<211> 300
<212> DNA
<213> Homo sapiens

<400> 914
aattccgttg ctgtcgctgg cctctgtgcg gcgggctctc tgccagctgc agtgggacca 60
cgagcccagg acaggtgtgc ggcgtgggac aggggtgctt gtggagttca gtgagctggc 120
cttccacctt cgcagcccgg gggacctgac cgctgaggag aaggaccaga tatgtgactt 180
cctctatggc cgtgtgcagg cccgggagcg ccaggccctg gcccgtctgc gcagaacctt 240
ccaggccttt cacagcgtag ccttccccag ctgcgggccc tgcctggagc agcaggatga 300

<210> 915
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 915
aattccgttg ctgtcggctc atcctgagaa agatgagtta atcctttttg gaggtgaata 60
tttcaacggc caaagaactt ttttgtataa cgagctctat gtctacagta cccgaaagga 120
cacctggacc aaagttgaca tacccagtcc acctccgagg cgctgtgctc accaggcggt 180
gataagtgcc ctcaaggtgg cggacagctg tggcnctttg gaaggnngtt ngcatctacc 240
aacngagagc aaatntaatn ctntgacggt atgctncttc cngttgccca cttcctctg 299

<210> 916
<211> 299
<212> DNA
<213> Homo sapiens

<400> 916
aattccgttg ctgtcggcag tttcccgtta ttttcttgct tgtcgttccc ctacatttcc 60
tcctgatttc ccaagactct ctttgtggct tttgagggtc agccaaggag caggcaagtg 120
agtgaacaat cctcaggaaa agaaggacca ttttagctta acacttcctt ttttttttta 180
agaagaatat aggtaaacag gtaatgattc ttgattggag ataccatttg actcttgatg 240
aaagttgtac gaagatggaa atgagggatg attccaggcg ttttaggggg aaggctgca 299

<210> 917
<211> 300
<212> DNA
<213> Homo sapiens

<400> 917
ccaaagtaac acaaatgctg ccttcaaaat gaaaaccagt tttctgttta ttcttgctaa 60
atgtttatgt aatataaatg tagtatgggt tctggttgat gttttgtgaa aattatgttc 120
tgtttcatcc agcgcaagta tttacttgat ctgatttctt cttgatacag gttaaatggg 180
ccagggaaaa ctatcaccat aacattggct caccatattg cttacggtta gcttctgctg 240
atgtcaatgg gaagatcatc gtctgggatg tagcagcagg agtagctcag tgtgagatcc 300

<210> 918
<211> 300
<212> DNA
<213> Homo sapiens

<400> 918
aattccgttg ctgtcggaaa taacttcgaa gtcctcttcc tttacaatat ttgaattcat 60
atttgtacct tctcaaaata gtgattcatt tttcctagaa ttacaggagg gagctctttt 120
actaatgttg ttttgtttgc aactttgatg gcttataata ggaagtattc tagttgtaaa 180
gaaaactctt tagagacttt tgactggtca gtatactgag gtgtgagatt tgattcatga 240
tgaagaaagc ctatagattg ccaaaaaatt aattctccaa accacctttc actctcagaa 300

<210> 919
<211> 206
<212> DNA
<213> Homo sapiens

<400> 919
gagaagatga ccgagagact cttgtcagcc aatgcaggga cacactctgt gttaccaaga 60
actggctgtc tgcagatact aaagaagagc gggatctctg gatgcaaaaa ctcaatcaag 120
ttcttgttga tattcgcctc tggcaacctg atgcttgcta caaacctatt ggaaagcctt 180
aaaccgggaa atttccatgc tatcta 206

<210> 920
<211> 300
<212> DNA
<213> Homo sapiens

<400> 920
aattccgttg ctgtcggcgc ggaggagaag tggcgtcgag tccggccggg cagtagagga 60
aattgcggta gtgaccctcg ggcctcgcca tgaagagccg ctttagcacc attgacctcc 120
gcgccgtact cgcggagctg aatgctagct tgctaggaat gagagtaaac aatgtttatg 180
atgtggataa taagacatac cttattcgtc ttcaaaaacc ggactttaaa gctacacttt 240
tacttgaatc tggcatacga attcatacaa cagaatttga gtggcctaag aatatgatgc 300

<210> 921
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 921
aattccgttg ctgtcgctgt gtttacacag tagtttggat gtacaattat tattagtggc 60
tttctaaaaa atgaaacagt gttaagcgaa ctgttgttcc tagctttgta ctccatgttg 120
tcaaagcatc aacaatgaaa attcgattag gaaactttat ttaaaatttt aggcntnctn 180

tattcantcg tantnanngc canncttaac ccattgnatg aaaatctang actgtnttga 240
agcaagcann catnacatct tntangnagg naatantcnt gcctttgcat aaaa 294

<210> 922
<211> 300
<212> DNA
<213> Homo sapiens

<400> 922
aattccgttg ctgtcgccca cacagtttgg catgaaatgg tcacttccgc atctagagca 60
cacattattt ttctgaagca ccctgttgaa tgagaggaat acatacgtgc catcataggt 120
tgaaaaagtg atcttttcag cataaattgg tgggtgtttg agagcattac ttgcacagtt 180
caacaataca gagctggaaa tgcataaaga ggacattccc tgctagtcaa cgaatacata 240
gatctgtagc tggaaattag ttttaacttt caagtagtca agaaactttt atgtccaata 300

<210> 923
<211> 300
<212> DNA
<213> Homo sapiens

<400> 923
gggaagggac ctgaaggcta cacagccctg atgatcagtt tctgagggga cccctctggg 60
ggaacagctc cctcctcttt cccagagctg actggaaggt ctgtctcatt ctacacactg 120
catttgttac agaaagggac caagtgggga aaataaagaa catggaacag gctgagagag 180
agggcagctc cattcaaagg acctaggtgt atgccaaaaa tgagaatgaa gattgaccag 240
cgacttcttt ggcagagacc tgggcaggct ggctgatgga gagctggggc ctgtgaatac 300

<210> 924
<211> 300
<212> DNA
<213> Homo sapiens

<400> 924
caagcgcaga cggaaccgcg atggtggcac ctttattagt gatgcagacg acgtcgtgag 60
tgccatgatc gtcaagatga atgaagctgc tgaggaagac agacagttga acaatcaaaa 120
aaagccagca ctgaaaaaat taactttact gcctgctgta gttatgcacc ttaagaagca 180
ggaccttaaa gaaacattca ttgacagtgg tgtgatgtct gccatcaaag aatggctctc 240
acctctacca gataggagtt tgcctgcact caagatccgg gaggagctgc tgaagatcct 300

<210> 925
<211> 300
<212> DNA
<213> Homo sapiens

<400> 925
aattccgttg ctgtcggaaa gactacgtgc tggcttgggc attttacatg acatagaagg 60
catccgctat gaaccaaaat gtcctcttgg agtagacata tcaaaagaag ttggagaagc 120
ttccataaaa gtaccacaat taaaaatgga gatatgattt ctgctgttca aaaaagtccc 180
taaagggtct cactctctga cctcagctgg agtacagtag ccagatcaca actcactgca 240
accctgactt cctgaactca agaaatcctc ctgccttagc ctcttgaata gccgggacta 300

<210> 926
<211> 300
<212> DNA
<213> Homo sapiens

<400> 926
aattccgttg ctgtcgcctg aacctgaaaa tcccaggtgg gcgtcgggga ctagtagggt 60
ggggaagcct tggctccagc cttcagggca gtgggtgcct ttgggaacca agtttaggca 120
tggcccagaa cacagtatcc aagtcggctg tgctgacctt ttcatttcac ttcatttcat 180
tatgttcttc tatgtttatt ttcacagagt ctcatccaag aaaaacaaat gtttaccttg 240
ctaccttttt cctcttccaa ataaaaatag ctttattgtg tcacatgggg gaaacgtaga 300

<210> 927
<211> 300
<212> DNA
<213> Homo sapiens

<400> 927
ttttgcttgc attaccccaa agtttctttg tcacttactt cctgtgcaga agttgtctac 60
ctattctaga ttatggaaat aactcagatg aggtagacaa cttctgcaca ggaagttgtc 120
tacctattct agattatgga aataactcag atgagcttcg tcagcaagaa ggaagatgca 180
tttaacattt tttcccaagg ctaaactatg tactataagt tattcgaatt agataaaaac 240
aggaaaaaaa tatatcacta tagaatgtct agaaaagtgg tttatgtttg ttcaactgtt 300

<210> 928
<211> 300
<212> DNA
<213> Homo sapiens

<400> 928
aattccgttg ctgtcggatc agccagttta gaggacctgt gggaaaatct gagtttaaag 60
cctgccaact cccctcatgt aaatatctct acaaccttgt ctccacaagt tattaatgaa 120
gtgtggcaag aagaaacaat tgggcgtcta ctacaacttg tagaccttcc acttcttgac 180
tccttactga aacagcaaga ggctgtacct aaaattcctc aacctaagag gcagtccacc 240
atggtcaaca gcagtaacta tctggatcga gggattctca aggcttatag tgactctcag 300

<210> 929
<211> 300
<212> DNA
<213> Homo sapiens

<400> 929
aattccgttg ctgtcgagat tttggagttt gacttgaggg gtataccact ggacttttca 60
tcttccggtt gggattattg tgaaggattt tgagacaatt ggacaaaata aattaattgg 120
cacggcgact gtagccctga aggacctgac tggtgaccag agcagatccc tgccgtacaa 180
gctgatctcc ctgctaaatg aaaaagggca agatactggg gccaccattg acttggtgat 240
cggctatgat ccgccttctg ctccacatcc aaatgacctg agcgggccca gcgtgccagg 300

<210> 930
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

<400> 930
aattccgttg ctgtcggttt tacattctat gattgaaaaa aattttttga aaacttttta 60
tttcattctt tcctgtagga ttttgctaca aataactttg ggaatgnatn aagtggaatg 120

ntaantttnc agngngccnn anntntnntt tttntctcgt anttgngaat tcgnttnntt 180
ntgtttttttn nnttnncaat tttctttnta antncntngt gnntntnanc nnntggtttg 240
ggtntnanat tgnngttna 259

<210> 931
<211> 300
<212> DNA
<213> Homo sapiens

<400> 931
aattccgttg ctgtcggaga ttgttgtctt gaactctggc actgtacagt gaatgtgtct 60
gtagttgtgt tagtttgcat taagcatgta taacattcaa gtatgtcatc caaataagag 120
gcatatacat tgaattgttt ttaatcctct gacaagttga ctcttcgacc cccaccccca 180
cccaagacat tttaatagta aatagagaga gagagaagag ttaatgaaca tgaggtagtg 240
ttccactggc aggatgactt ttcaatagct caaatcaatt tcagtgcctt tatcacttga 300

<210> 932
<211> 300
<212> DNA
<213> Homo sapiens

<400> 932
aattccgttg ctgtcgtctt ggagctttca tttactaatg aggaacaaat gatagtcatg 60
ttatgacaat gtgttataaa ttaacaatcc tcttttaaac tagatttata aaacctacac 120
acttgagggt ttccatttgt tctatctaga tgtattttga gaaatctgaa acaaaagctt 180
gtttttttgt ttgtttgttt gttgtttgaa acagtcttgc tctgtcaccc agcctggagt 240
gcagtggtgc gatcttggct cactgtaaac tcggcctccc agattcaagc gattctcctg 300

<210> 933
<211> 300
<212> DNA
<213> Homo sapiens

<400> 933
aattccgttg ctgtcgggtt tctcttgaat tattttggaa caatgccagg atccaaactg 60
attaagttac agtttaagca cccttcagta ttaatatata cggtattata taacaggtca 120
acaagtgctc tttgatgata aaacttgtaa tagagcaata attgtaaatg gttaccatac 180
tgtaagatat tttgataaaa attaactagt aatacttgta tttatttgaa acactgggct 240
gtttgcacag ctccaactgt gcatgctcaa aatgtgcact ttttaaaatt gttactttta 300

<210> 934
<211> 300
<212> DNA
<213> Homo sapiens

<400> 934
aattccgttg ctgtcgagat tttggagttt gacttgaggg gtataccact ggacttttca 60
tcttcccttg ggattattgt gaaagatttt gagacaattg gacaaaataa attaattggc 120
acggcgactg tagccctgaa ggacctgact ggtgaccaga gcagatccct gccgtacaag 180
ctgatctccc tgctaaatga aaaagggcaa gatactgggg ccaccattga cttggtgatc 240
ggctatgatc cgccttctgc tccacatcca aatgacctga gcgggcccag cgtgccaggc 300

<210> 935
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 935
aattccgttg ctgtcgcaaa ggatagctgt ggttgcattt tttcctgaga atggagtaag 60
tgattttcaa aaagcacaaa taattggcag tcagagagaa aatggatggc cagtgggtgt 120
tgagtcagat tttgnncnnt nncacacann nataacaana nnttttaang atccngcncc 180
tacnngcttt cntactgcgg anacctgnnn acatcttact attccnnctc tncntncacc 240
gnngccgant acctacgnan nnngtnatcn tncttgcgca tntttgaacc t 291

<210> 936
<211> 300
<212> DNA
<213> Homo sapiens

<400> 936
aattccgttg ctgtcgaagg aatggttgtt cgcattaaat ccatcatctt gagcactctc 60
actctgcttt tatctaatgt tccccttttt ttctctgttg ctttcctgaa gtagagagtg 120
attttgtata agtgtaggat aaaatgtttg agcagatgac aagaaagtct ccattctgag 180
tctctgttct ttccaaatta ttaaactgca gggaatttgc ccatatccct gggcaggtaa 240
cactacacaa gagggagtgg gttgagcata ttatgtatat agatgtgaaa tacagctgga 300

<210> 937
<211> 300
<212> DNA
<213> Homo sapiens

<400> 937
aattccgttg ctgtcgtatc tatccatact atgattatta aatcttatgc ggtacctaaa 60
cacaccacac ccttttgtgt tatttctgtt cttttctaca cgttcttccc actgattgga 120
gcacccctct gactcactgg ctaactgcta ctttttgttc aaaaatcagc tgagagggca 180
actcatctgt gaatttttc ttgacttccc tcctcccagg ctgggttagg tgcctcccta 240
tctcttttt tacttaaatt ttttttcttt attatttctt tattttttg agatggagtt 300

<210> 938
<211> 300
<212> DNA
<213> Homo sapiens

<400> 938
aattccgttg ctgtcgaaat aagaagaagc aactgtacaa accatgtaag taaacactca 60
aatacttaag aaattgatag tttgacataa aaggatgtct ctcttgattt ctttaaatta 120
caatgtggac ctggtggtgg tagcatggac ctctttttgt ggattttcta aatctcttct 180
atttcctga gtattaaatt tatccagaaa agtgtttagt ttagcgtgtc cacctttttaa 240
agatttctga catttaagtt aaatttcaat agtctggttc aaaagatctg ccttacggct 300

<210> 939
<211> 300
<212> DNA
<213> Homo sapiens

<400> 939
aattccgttg ctgtcggcag ctggatggac actatagcaa acatcaatca agagctcatt 60
aaatatgaat tcttccctga agccactcga agtgaagaag acttaaagaa ataccccaag 120

taccccctggg ggagagaaat ctatacttta gaaggtgttg tggatggagc tccatattcc 180
atgatttctg acttcccttg gctgaggtca ttacgagctg cagagcccaa cagcttcgct 240
cgatacgact ttgaagacga tgaagaaagc actatctatg ctcctagaag gaaaggacag 300

<210> 940
<211> 300
<212> DNA
<213> Homo sapiens

<400> 940
aattccgttg ctgtcgggag gacatagcca gggcggacaa catcttcacg gccactgaac 60
ggaaccgcat cgactacgtc agctccgccg tccgtatcga ccacgccccg gaccttccgc 120
ggccagaggt gtgttttata ggcagaagca atgttggaaa atcatctcta atcaaggctt 180
tattttcact ggcccctgag gttgaagtca gagtctccaa aaaaccagga cacacaaaga 240
aaatgaattt tttcaaagtt ggaaaacatt ttacagtggt ggacatgcca ggttatggct 300

<210> 941
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 941
aattccgttg ctgtcgctca gcttcaagtt cctaagataa gggctttctt aagctttcag 60
gtgtatgtat cctctagatg tagacaataa tgtcccattt ctaagtcttt tccttttgct 120
tctccttaaa ttgattgtac ttncaaattt gctgttangg naattntcta atacnnnnan 180
nanttagatn ctctantcga nctntntnnn ncnntnnctn tantntatac nntnatattn 240
tctnntaaan tncctntctc tntncnanta gcatctg 277

<210> 942
<211> 235
<212> DNA
<213> Homo sapiens

<400> 942
aattccgttg ctgtcgggga gaggatggaa aaggcaccat tacagaacag gtttctagcc 60
aaactttcta gatactactg gtgtcaaaga tgaaggtcat gtgcagccat gtaagattag 120
cccaaggagc cagctcaaac catgcacatc cagggcccag cttggaattc atgttctgga 180
ggccttggct gggaggcaga atctgtgaat tttaaaaaca ctttcatgaa tccaa 235

<210> 943
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 943
aattccgttg ctgtcggacg aattggaagt gctaagtatt actatttcat gtggaagtct 60

gaaaataact gcaccgaagt gttctgataa ataactaaat tgagctagtg agggggaaat 120
ttcagccgtc tagagagtgt ttctcttaaa tattttttct ctcaagtgga aaggagtgag 180
ggggagagcg aggatcacct angcctcncg cctgngcctc tgccngancn ngacncaacc 240
tccttcaacc cncgnnaacn naaggnngag caccttcccc 280

<210> 944
<211> 300
<212> DNA
<213> Homo sapiens

<400> 944
aattccgttg ctgtcgagac tgcagacatc catacctcac cacagaccaa agatgacctc 60
gtgtcagact gtgggctgat gagaggtaga gcagcatgca tcgaggcctg agggtgcagg 120
gcgccctctc ttggcctgga ggaattgctc ctaactagag taagtttcca cgagggtccc 180
aggcagagct gcagagctgg aaccggaggc tccacagtcc ttgcctgctc atggacctcc 240
ttcagagcac ctttctacag actggactgc ccagctccgt ggggtggcat ctggtttctg 300

<210> 945
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 945
aattccgttg ctgtcgattt aacttcaagt gtgctgcgag aaaacttcat aatagttcct 60
aagatgtgct aaaaagtaaa gtccaaaaag atcataaagt ctgtagagaa gttctaagag 120
tgcagtcagc tataaaaacc tagcaattta atttcttaga aaaatgtagc tggagttcaa 180
actgtagtaa caaaggcaag taaattaagt tgtgggcagg tgtaattaag ttaataggaa 240
tggcagggat gaatataaat cagaacagga ctaacagnnt gaaacattan atattcaaat 300

<210> 946
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(253)
<223> n = A,T,C or G

<400> 946
aattccgttg ctgtcggttt gttgaaatga atggacaaac tcttaggata aatcctaatt 60
tgttggcaac tgttatttga ttttagaagg caaactgatt ttattttaga gaggggaagg 120
ngagggnagg ctcattancc tcttggaana angagganta ttnctgnnna tgaataggtn 180
nncancttan gtantgacng nnnttacttn tnattatgna ntgngnnttg ncgttnnnna 240
gnnnnntana cgt 253

<210> 947
<211> 300
<212> DNA
<213> Homo sapiens

<400> 947
aattccgttg ctgtcgcgcc ccggcccccct tcctgccccc tcttcccgcc agcccgcctg 60
gagcaccagc ctcgcgcgtc cggaggaacc ttggcttggc gccccatcct ggtagcctta 120
aacttcatag cactttgtgg tttttcttaa aactctgagc ctgtgcccgg gcggatcacc 180
tgaggtcggg agttcaagac cagactgacc aacatggtga aaccccgtct ctactaaaaa 240
tacaaaatta gcccggcgtg gtggcgcatg cctgtgatcc cagctacctg ggaggctgag 300

<210> 948
<211> 300
<212> DNA
<213> Homo sapiens

<400> 948
cgttgggcga gatgaagcta cactgtgagg tggaggtgat cagccggcac ttgcccgcct 60
tggggcttag gaaccggggc aagggcgtcc gagccgtgtt gagcctctgt cagcagactt 120
ccaggagtca gccgccggtc cgagccttcc tgctcatctc caccctgaag gacaagcgcg 180
ggacccgcta tgagctaagg gagaacattg agcaattctt caccaaattt gtagatgagg 240
ggaaagccac tgttcggtta aaggagcctc ctgtggatat ctgtctaagt aagatggagt 300

<210> 949
<211> 300
<212> DNA
<213> Homo sapiens

<400> 949
ccctggtacc ccctgcccgc gccgatataa tgctttttcg cccccctggg acctcggact 60
tgggcttccc tttggacatg accaacgggg cagccttggc agccaacagc aatggcatcg 120
ccggcagcat gcagccagag gaggaggcag ctcgggcggc tggtgcagcc attgcaggcc 180
aagcctcttt gcctgtgtta cctggggtgg accgcttgcc catgggggct ggacccctat 240
ccccccaact ggtgactttc ccattcccca gtgtggcatc cagtgcccct cccctgactg 300

<210> 950
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 950
aattccgttg ctgtcgagaa atttgaaacc agttgtcagt tttcaggtgc ccaggagcat 60
gacaatatgc ccgagggacc gtaacaggac ttgacatgga gctgggtcta aagcagatga 120
cctggtggct gcagcgtgtt ccacacaggc gagcactgtg aggccaaagg actggtgttg 180
agcagaatga aaaagcacag tgttggttaa tcctgaaaag tgaagcctgc aagaaatgaa 240
cttcgacctt ggagtggggg tgggacaggg gctanaagga anagaggctn ggaagtg 297

<210> 951
<211> 300
<212> DNA
<213> Homo sapiens

<400> 951
aagcaacggg tccctctagc tttgtgttgc agagactaaa ttccaggagg gtccagccaa 60
gaggtcaggg actccctaca cccaacttcc actctaggtg gaggctttac cataggtatg 120

gcaggccaag acacagggcc ttgatcaccc tctccatacc tcactcaaga tggattttcc 180
atgccagaag taagccaaga acaccagagg ctattgtctc aactgagccc ataaagcagg 240
catgtaactc ccagagagtc aggccgcttt cctcactcct agctccagag tgtaatgccc 300

<210> 952
<211> 300
<212> DNA
<213> Homo sapiens

<400> 952
aattccgttg ctgtcgcttt tcctttttaa agaaggctgc taattggatt ttggtagttc 60
ttacctcaag aaaacttgaa ttatttgggg gaaagtaggc tcaaaagaga atatatcttt 120
cacattcaca ttcagaaccc agcaacctgg agtccaattt tcagtatttt aactacctca 180
ataatgctat gaatgtaaga tattgggata gagatcccaa cttgaaacaa cagccagtgc 240
ctgtggtaac ttaatgtctt gtcaaatact tttattgatt ggtttatatg ccattcttgt 300

<210> 953
<211> 300
<212> DNA
<213> Homo sapiens

<400> 953
aattccgttg ctgtcgcttg tacagtattt ctacttttta ttctaatcaa ctggactgtt 60
gcattatttt tatgtagatt gctaacaagg tttttgaaga aacactctta aaagtcataa 120
aagggaaaat cttgacagtt ctgggatatt gccaccccttg accttttgga gaaatgtaga 180
cagcatctcc caggcatgac gcctagggat cgtgtttatc tgtcatcagt tggtgactcc 240
atgtttattg agcactggct ataagccaga cttggtgagg gactgaaaca attacaagac 300

<210> 954
<211> 300
<212> DNA
<213> Homo sapiens

<400> 954
aattccgttg ctgtcggaag aattgaaaga gcaagtcatg gaagtagaag aagatccgca 60
aaccataacc actgaggaga caatggaaga agacaagagc cagtcggatg tagattttca 120
gtcttgtgaa tcttgtacca acagtgatag agcagaaaat gaaaatggct ctagatgctt 180
ttctgaagat aataatgaaa caacaatgtt aattcaggat gatgaaaacc attcagaaat 240
gtcaaaggat tggcaaaaag agaagatgtg caataagatt aataaagtac attctgaagg 300

<210> 955
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(276)
<223> n = A,T,C or G

<400> 955
aattccgttg ctgtcgccca gtgcctgcac ggcttggtgg ggtgggtgca tggacatgcg 60
gccagctgcg gggccctgcc ccaccttcag aggacactgt cctccgagta ctgcggcgtc 120
atccaggtcg tgtggggctg cgaccagggc cacgactaca ccatggatac cagctccagc 180
tgcaaggcct tcttgctgga cagtgcgctg gcagncaagn ggccatggna cnaananacg 240
gcgccacggn tgncccacac cgaggnnnga accctg 276

<210> 956
<211> 247
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(247)
<223> n = A,T,C or G

<400> 956
aattccgttg ctgtcggtgg acacctctga tgaggaaagc atccgggctc acgtgatggc 60
ctcccaccat tccaagcgga gaggccgggc gtcttctgag agtcagggtc taggtgctgg 120
agtgcgcacg gaggccgatg tagaggagga ggccctgagg aggaagctgg aggagctgaa 180
cntgangnnn gngatcaggn gngcnnggnc gatgatgnng nagncnagtc tnnncngntn 240
ntccccac 247

<210> 957
<211> 300
<212> DNA
<213> Homo sapiens

<400> 957
aattccgttg ctgtcggtac gatacttaaa accatcacaa gctgcccaag caatagaaaa 60
ctgtgatcga agttttagag caatcttggc tgaacctaaa aataaagcat ctgaatcctc 120
tgaacaagat tattatagta atatgaggca agaagctttg ggacatgaac ctagagtaaa 180
tatgtttcca tttgaacaac aatctgaatt ttcaagtttt gacaagaatg atagccgagg 240
ccaggaagca atctccaaac gcttgtcagt tgtatcaaga gttcctttca ctgaagaaca 300

<210> 958
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 958
aattccgttg ctgtcgctgt gagccaacat tgtatgtgtg tggatattta caaatgcacc 60
gttggattct ttgtcgttca agtgaatgtt gactatttac aggtaaagaa ctctcttgtc 120
tttgtagata tcaggttatt tgaatcaagt aatatttgcc tatctattta tacattaata 180
tgtttaaaaa gaaatttctc caagaagaac attcgtcatt cattatttgn ttgatgagat 240
gatacttaca tttttatngt gtantcatnn nanatctaat 280

<210> 959
<211> 300
<212> DNA
<213> Homo sapiens

<400> 959
aattccgttg ctgtcgcaca ggactagcag tgagcaggca gatccctcag caccctgcct 60
tgccccatcc agcttgctgt cccctgaggc ctcaccctgc cggaatgaca tgaacactag 120
gactccccct gaaccctcag ccaagcagcg gtcaatgcgc tgttaccgaa aagcctgcag 180
gtcagccagc ccctcaagcc agggctggca gggccgccga ggccgcaaca gccgttctgt 240

cagctctggg tccaaccgga ctagcgaagc atcttcctca tcctcatcat cgtcttcctc 300

<210> 960
<211> 300
<212> DNA
<213> Homo sapiens

<400> 960
aattccgttg ctgtcggaaa aggcaaattc ttagaatttt aaagggtttt ctctcaagta 60
gttttaaaat ttcaaatgat ggtgttgtat cccttccctt cagacctgga atcacatttt 120
cccctcaaga cagaaagggc tctgcggcag gttgtgcctg ggaaggggct gcttctcatt 180
tgtggccacc tctctgccca ggagctggtg aggaagggtg aactagggga tgcctttcag 240
aacaaaggag gtgaggagat gagcccctcc acatctgccc caaatagaga ccggcgtact 300

<210> 961
<211> 300
<212> DNA
<213> Homo sapiens

<400> 961
aattccgttg ctgtcggagc aggcatggtg gtgcatactt gtagtcccat ctacttggga 60
tgctgaggca ggaagatcac cggagccagg actttgggat tgcaatgagc tatgatcatg 120
ccgctgcact ccagcctggg caacagagca agaccctgtc tcaaaaataa acatagtatt 180
agtacaatga aaagacaaat cgagaataga taatacaaaa atagccttat agtaaccaga 240
cttactgatg aatgccacag acccggagta tgtcacatgg tttatcaggt gaattaataa 300

<210> 962
<211> 300
<212> DNA
<213> Homo sapiens

<400> 962
aattccgttg ctgtcgcctt catggacctg ccagcctagt tggggagaag gactgggccc 60
aataccagaa gctgatccaa agtggtcaga actggggaag gagacctgtg agctgaaagc 120
aggtaaagga agtatccaga cagaggcact ggtaaaagac ctggagctgg gaagggtcta 180
gggaccaggg acaggttgta ctgtaattct ggaaaccttg tgaggctcaa agaaaggggc 240
agagagctca gtgggaaata gaaaaggcac ctgaacagtc cagggatggc tttcgactac 300

<210> 963
<211> 300
<212> DNA
<213> Homo sapiens

<400> 963
aattccgttg ctgtcgctgt ggccatcttt ccttacacgt ggggaggaat cagcctgaga 60
atgaaaccat cacaggaaag ggctgaaaga cggcaagttt tcactgggtc ttacccgacg 120
tgagccccca ctcctccata tggacctgtt ttggaccaat gaggcatcct cttctgtagt 180
cctcaacacg cggagctcca ccactcctga gcagtgtgac ctcaggtgct tgctgcagag 240
gcatcggggg tctctggcca gaggtgacat ctgaagcaat cgggatcctg tttggttttg 300

<210> 964
<211> 300
<212> DNA
<213> Homo sapiens

<400> 964

aattccgttg ctgtcggtat aaggtgtctc agcacctgtt tgccttctat tcccttttaga 60
aggtaagtaa aagtaatggg ggaaaggatt aggtggagcc tgtctaaaca ttctagtgtg 120
tcttggcaaa catagcctga aatgattctt aaagaactgg cattgtttaa tcaaatattt 180
ttaagggaga ttccttaatt gggaagttta gtctgtttgg ggttcaaaga gtaaatgagg 240
attagaaaat catggagaga ggctgggcgc ggtggctaac gcctgtaatc ctagcacttt 300

<210> 965
<211> 300
<212> DNA
<213> Homo sapiens

<400> 965
ctgctttgaa gaactaggtt ggaaaaccac caagggttta gtccactctg cccccaaatc 60
ctgagtctgc tgaaccagca ccaccgcctt cggtgttggt tcaggaagtt gcccttgtct 120
ggtagggagg gtgagcctct gaaataaggg ttgggagtca tgcagtgtgg ccttggtccc 180
tgggggggt gttaaaactc aagagaaggg ggaggaaggg ctggggcact gccctgaagc 240
catttccctc ctcaccagcc cagacaccaa cccagggtgg cgggagccac attcatcccc 300

<210> 966
<211> 300
<212> DNA
<213> Homo sapiens

<400> 966
ggatctgacc ctgattgggg agagctgagt gctgagcctt gggagcccct gccagccacc 60
tgcacctgtg gacagtgggt gggggcacta ctcccccactc agagcacaaa tgcaactcct 120
tcccctacaa tcccatcctg agccattgca gggggcaggg aagttcaccc cccccaccac 180
cccccgccc ccccgaagcc atgtcactga aaaggcctgg gggggatggt atatggccct 240
ttccccacca ggcgctaagg ggaacacccc cttccccagg tcttttattt gtttaagtta 300

<210> 967
<211> 300
<212> DNA
<213> Homo sapiens

<400> 967
aattccgttg ctgtcggtac atttttgcaa ttgttttcct ctaatgagtt gtaagacaga 60
taaaatgtga aaaattggca ttaaacatca cttgggaaga gtttgtttct ttttagcttg 120
aggttggtaa aatggattta tttactccgc gcccccccccc cctgcccccc gcttccattt 180
gggctgaata ctaaaaggtt tttagagaga gagaaagttt caggggggttt catacccctca 240
gtttacaatc tgagaaacat ttttttaaa agcttccttc caaacctgta gcacattgcc 300

<210> 968
<211> 300
<212> DNA
<213> Homo sapiens

<400> 968
aattccgttg ctgtcggcaa tcctcccacc tcagccttcc aaagtgctgg gagctgtgag 60
ctacacctgt gagatggcac ccttgtcctg ctgcatattt taagagttct gtttagtcca 120
tcaattgagg tcaggaaaat gaacgtgctg aaagataata tgtaatgata ataatttgta 180
gacataaatg ccagccgtgt ctgttaacta tttcaggtga tattgtacta aatctctgaa 240
atcacctgtg atgaactttt aaaataaata aaacttttaa gtcacagtgt gattataatt 300

<210> 969
<211> 300

<212> DNA
<213> Homo sapiens

<400> 969
aattccgttg ctgtcggtct ttggttgctg ttctttccta gactcttcag aaaaaaatga 60
attaactagc aatgcttaaa gaggtagtaa atacaagcca atccattttc attccagctg 120
catttcatgc ttcagagtaa tggctgttag ccagaatcac ttgtgaagct ttatacacat 180
atacattctg tgatcttatt ccctgtaaac ccctattcag tagtcggtct gtgatgaaat 240
cccaggcatc ttcattcagg ttaaaaaaaa tatatatatg tctacatgaa attctggtat 300

<210> 970
<211> 300
<212> DNA
<213> Homo sapiens

<400> 970
aattccgttg ctgtcggttc tcatggctat ggctaaagtg taagagggta agcctccttg 60
tacaagctca tgtaagattc ttgcttatgt cgtgactact cacatctcat tggccaaaac 120
aatgcccaaa tttgccaaag tccatggatg ggagggattg caatgttata ttgaaaaagc 180
ttgatacata gaggggtgga gaattggagc cagtcattca acctacccca tatcctttgc 240
acagtcacat taaataatga ataacatatt tcttatttga ttatttaatt ggttatctcc 300

<210> 971
<211> 300
<212> DNA
<213> Homo sapiens

<400> 971
aattccgttg ctgtcgggga gaatcaccct cagcacccgc caagacctgc agacacacct 60
gaaaccagag ggcaggggcc tgtggctcct ggtgaaacct tcattcattg cctgtgggca 120
ctgaggtcat caagttcagg ggtcactcat ggcagggatg cctggtactg agagactcag 180
ggctcctgcc tccctcctgg gactgtgcaa aagatccctc cccccagctg ctgccccacc 240
ctgatcaggg gagggggctg ggcaacctag ttgggggaga gggggccact ccctgtcctc 300

<210> 972
<211> 300
<212> DNA
<213> Homo sapiens

<400> 972
aattccgttg ctgtcggaga gactgaaaac agagaaaaag ttgccgcctc accaaaaagt 60
cccactgctg cactcaatga aagcctggtg gaatgtccca agtgcaatat acagtatcca 120
gccactgagc atcgcgatct gcttgtccat gtggaatact gttcaaagta gcaaaataag 180
tatttgtttt gatattaaaa gattcaatac tgtattttct gttagcttgt gggcattttg 240
aattatatat ttcacatttt gcataaaact gcctatctac ctttgacact ccagcatgct 300

<210> 973
<211> 300
<212> DNA
<213> Homo sapiens

<400> 973
cttggttggg ataaacttgt gtatgcggat acctgcttca gtaccatcaa gttaaaagca 60
gaagatgctt ctggtagaga gcatttaatc actctcaagt tgaaggcaaa gtatcctgca 120
gaatcaccag attattttgt ggattttcct gttccatttt gtgcctcctg gacacctcag 180
agctccttaa taagcattta tagtcagttt ttggcagcaa tagaatcact aaaggcattc 240

tgggatgtta tggatgaaat cgatgagaag acctgggtac ttgagccaga aaaacctcca 300

<210> 974
<211> 200
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(200)
<223> n = A,T,C or G

<400> 974
aattccgttg ctgtcgggac agtgtaggtc taggagacat taatactcac atccactaaa 60
catcaaggta cagttatttt gagtgccact aagaggtgaa tgatgtttcc agagaccata 120
acatgaaccc acttggtctg taggttaggg gtggcctctc tgtggtgggg ggangggatg 180
nnnnnnnnnn nnnnntnnng 200

<210> 975
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 975
tttttctact ccttcttttt gcagnttccc atttnattcg aattccgttg ctgtcgaaag 60
aatccacact gcccaggtcg gggagcagtg gtggccagca gccctcaggg atgaaggagg 120
gtgtcaagag gtatgaacag gagcatgctg ctatccagga taagctcttc caggtggcaa 180
agagggaaag agaggctgcc accaagcact ccaaggcatc cctgccccacg ggcgaaggca 240
gcatcagcca tgaggagcag aagtcagtcc ggctggccag ggagctggag agcatagagg 300

<210> 976
<211> 300
<212> DNA
<213> Homo sapiens

<400> 976
aattccgttg ctgtcgggca ggggaggggc ttccaggatt cacaggggca gatgggagcc 60
agcagtgggc agctgggagc tgcgactcat tcaaagagag ggagttagtg cagggtaccg 120
agatcaggaa gaggagtggt gcagaggtgg gaggtgatga gactcaagac tacagagaga 180
agaaagggcc ggcagcccag atcccagccc cacccctcct gccctgcatt caggcagagc 240
acagagggat aaagagggag gtgggttggg ggacaaggca gagatgcata tacctgggac 300

<210> 977
<211> 300
<212> DNA
<213> Homo sapiens

<400> 977
aattccgttg ctgtcggtaa gttatatctc ttaactggat tctatagttt tatctcgagc 60
aacttggaaa agctaagaca tcctccaccc acactggtat ctacgcgcct ggaagctgca 120
ccttctctca ttgctgtgct ctgctttaag gaaaacctga tatgacagaa tcaagactat 180

taaaagataa atgaggggaa atcttcattt aagaaagttg ccttgctccc caagagtgcc 240
tttaattgct attcccctag gcatctgggt gcatatcatt aatgaaatca ttaacctttg 300

<210> 978
<211> 300
<212> DNA
<213> Homo sapiens

<400> 978
aattccgttg ctgtcggtag aattctgatt ggcatgggaa gtgttttcct tggtttgaaa 60
ttgggcattg gcaccaattc ttcagtacca attctaggag gaacaatggc tgttagccat 120
ttccccccaca tatctgagct tcagcatttt aaataagcaa caagtgggta tggtttattt 180
ttggaaccag cgtgaaggca gctgacacaa ctcatctggg ttgcctggtg cttgcagggg 240
cccaaatgca taacagaaat tctttgtgct tcatatagat gaatttgaac agttccacct 300

<210> 979
<211> 300
<212> DNA
<213> Homo sapiens

<400> 979
aattccgttg ctgtcgcttt taaagtcaaa ggggtgtaca ctctgtgatg ttattcgtaa 60
tatcatagga aggggttatt cctaatatca catgggttat cctaggaaga ggttactcct 120
aatatcacac tcctaatatc acagcctgtg atagcattcg gaatatccaa aagggatggt 180
acttttaatg tcacatgggg tgcacaccct ttgataatat tcgtaagatc ctagggacat 240
atgacttcaa atatcacatt gggtgtacac acatggtgta cacattgtgt gtgaacacct 300

<210> 980
<211> 300
<212> DNA
<213> Homo sapiens

<400> 980
aattccgttg ctgtcggtgt gactgcctgc cctcctctgc ctcagtggcc tgactcagtg 60
gccaagggac ctatccatct ctgaggtgag agctttcctg tcttgactgg tctccaagac 120
aaggtgaaca gggacctcac ctctacctcc ttcttagggg gcgagaacag tactgcccca 180
gtcaagagga gcacggggga atgggggtc cccacccagt ttcaagaccg actccgcctc 240
cctaggagta tggatgtaga aagatatgtg accccacaat agcaatgggc aaccctggac 300

<210> 981
<211> 300
<212> DNA
<213> Homo sapiens

<400> 981
aattccgttg ctgtcggtca cggtactttg cccaaagtca ccccgatgtc aagcgttaga 60
gcaagaattt gaaccccaga gcttaactct taaccatttt gctaactggc tgtctctcca 120
ggccccccatc accctttcca tcaccctccc ctgccccagg ggcatcctat caaatggcag 180
ttcccccctc gcttgcctca gcatctccaa tttagagctt catggatctc ctcctgttga 240
agtcatggga tggatttccc atctcagaaa ctgcacaaga aacaaccttg gagttttgaa 300

<210> 982
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 982
aattccgttg ctgtcgagat gaacagcccc caggtcccac cctcccagcc gctgcggccc 60
tgggcagggg gtgatgtgcc ccacaagaca catcaagccc ctgcctctgc ctcgtcactg 120
cctgggaccg gggcccagtt acccccccag ccccgatacc ttggtcgtcc cccatcacca 180
acctcaccac cacccccgga gctgatggat gtgagcctgg tgggcggccc tgctgactgc 240
tccccacctc acccagcgcc tgccccccag cacccggctg cctcagccct ncggactcgg 300

<210> 983
<211> 300
<212> DNA
<213> Homo sapiens

<400> 983
ctggccctca cctcccgccg tagctggctg tgacgcccgc catgggcaca ctggggcagt 60
gcagtgagaa gacgaggatg cccagcaggc tgacaacggt gcagaacagg cagaacttga 120
tgaccgcgga gccccggagc ctgagcttgt tcacaaagaa gccgcccagg aaggtgccgc 180
caccacccgc tggcaccacc agcctctcac cagagcagac tgtcggcctc acatcacccc 240
cacctgcagg agggcggctc tttcctctcg gccacaccta gagcctggtt ccgatgaacg 300

<210> 984
<211> 300
<212> DNA
<213> Homo sapiens

<400> 984
cccgggccag cgtcacagtt ggaggagagc agattagtgc cattggaagg ggcatatgtg 60
tgttgctggg tatttccctg gaggatacgc agaaggaact ggaacacatg gtccgaaaga 120
ttctaaacct gcgtgtattt gaggatgaga gtgggaagca ctggtcgaag agtgtgatgg 180
acaaacagta cgagattctg tgtgtcagcc agtttaccct ccagtgtgtc ctgaagggaa 240
acaagcctga tttccaccta gcaatgccca cggagcaggc agagggcttc tacaacagct 300

<210> 985
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 985
aattccgttg ctgtcggaca tcacagcccc tatgaagaaa gtagccacaa tctcaaataa 60
caaaagggaa tgttctaaaa ctttttcttc cttaaaaatg gagaaaattg cacttgtgct 120
tgctgtgtgg tatataaacc aggattagtc ccagggtcgt gaggtttctg gtgaaaaggt 180
taaatcgtag aagctagtat attttttata tttttgtaac aattgctttt ttcatggggg 240
aggcggggta ngtatttata gncctaacaa gtccagtaat tttttataaa tcttca 296

<210> 986
<211> 300
<212> DNA

<213> Homo sapiens

<400> 986
aattccgttg ctgtcgaggt gcaggtgtta gtgcaggacc ggaagggtga ggtgtcctag 60
gcctcggggc tcctggcctg ggctggctga ggcaggactc tgccaaaagt cccctgccag 120
gcctcatggt ggtgctcctg gtggcagtgg ctctctggcc gcgggccctg tctgtgtctc 180
cgtggtggct ctcacagggc tctccagaca ctccttgact gcatccttca gtcttggccc 240
ctaggcctgg ggccccttgg gagcttgcct gacctcccct cctgggctgg gtagccatgg 300

<210> 987
<211> 300
<212> DNA
<213> Homo sapiens

<400> 987
aattccgttg ctgtcggctg agcatactgt aatagtcata agtttaattt cattataata 60
aaaataatca aacaaaagga ctttagaacc caagacaatg agctagtttt ccctaaagtt 120
tgctgaacta ttaaggaata tgttcttata gcttttgact agaatgagtc atgggaattc 180
taagaaggga tggcctagac atttttagct cagttaaatt cagcatttaa tgcaggtgag 240
ttcctgggtc gttttccaac tagtctggaa cagtctggtt ctgactcaaa ctggtataaa 300

<210> 988
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(258)
<223> n = A,T,C or G

<400> 988
cgacacgctg ctggcgctgc accagcacgg ccactcgggg cccttcgaga gcaagtttaa 60
gaaggagccg gccttgactg cagttgcaag aacngnaagg naaangaagn actntccaaa 120
atnanagngn gnaatacttc nnaganttct tgtgngttat tttnnnnana nacnttcata 180
ttnanttttn ttttnatntn tatntnttat tnnnatttna nagnaatant tattnngatn 240
nntnttntan ttcattnt 258

<210> 989
<211> 300
<212> DNA
<213> Homo sapiens

<400> 989
aattccgttg ctgtcgggag gacttgaact cctcactaac atgtagaatt gggctatttc 60
ccactcgaaa gtactgacct ccagctttcc taaaatccca ccgcacatgg gctagcaatt 120
ctgagatgaa agcggaagct gtcattccca ccagtgtctc aggcgccagg gcagcctcct 180
cagggacgtc cctgcctcct cattgcactc cacaaccaca gcagagcatc cacagtcgta 240
attaggcaat tcttcttaaa aaatgttatg taattagcac accatagaat tccccatttt 300

<210> 990
<211> 298
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 990
aattccgttg ctgtcggata accaaaacag tatatgtagg tagaaaagag aagagtgtaa 60
ggtcttagct ctggaggact ggtgatattt aaagcttagg gtgataagga ataggaatag 120
agagtgagaa cgaggggcca ggaaatgtag gaaagctaac aaagtatgtt attctaggaa 180
tgaaagagaa agtgtatcat ggaggatgct gatngnctgc ntcncacgtt tgtngnctag 240
nctcatngct ntaatnnatn nanntcttga ttntgtcatt tcntnannnn ctacctct 298

<210> 991
<211> 300
<212> DNA
<213> Homo sapiens

<400> 991
aattccgttg ctgtcgctca aggcttcaaa cagcgcagat aaatgcaggc aagaaaagat 60
gccgccgttg ctgccgtcac cgcctcctgg gtcgtccgcc acgggttgca ctgccgtggc 120
agacagctgg acttgagcag agggaacgac ctgacttact tgcactgtga tccccccttgc 180
tccgcccact gtgaccttga accccatgca ctgtgacctc ccccttctc cccccttccca 240
ctgtgattgg cacatcgaca agggctgtcc caagtcaatg gaaagggaaa gggtgggggt 300

<210> 992
<211> 300
<212> DNA
<213> Homo sapiens

<400> 992
aattccgttg ctgtcggttt cttaacattt ctagttgtct gcaaccatcc ctgtcttaca 60
ttacattatt aagttagttc tattacaaga ctaatgaatg acagaataga gcaaacatgg 120
actttggagt cagacagaca tgagtcagat aagagttcaa acccactgac tgccgtaaac 180
ttgggcaaga gatttaaccc tgtcagggcc tcagtgtact cattagtaaa ggtaataata 240
agtctgtagg aaataatacc tacatactta catttgacat atatttaatg ctccagctta 300

<210> 993
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

<400> 993
aattccgttg ctgtcggagt ttttgctatt atattttatc agatgctaac atatccctaa 60
cttctggctg attctttgct ttaatccttt ttatctatca gtcaccaaat acttaattga 120
ttccttttgc tgggaaaaaa gccaaaaaaa aaaaccaaac tgcccacaag gaacttaaaa 180
tcatttatgg ggattngnat ncagttnntn gncccanggg cgcggnatnn nngcnccccn 240
nnanntnccn gggnttangn ngtncccacg g 271

<210> 994
<211> 300
<212> DNA
<213> Homo sapiens

<400> 994
aattccgttg ctgtcggtga tttgtttcta ttaaaaataa ttttcaagtg gtttcttgta 60
ctttagtatg aagacattga gtaaatataa gaagcatagg aacagtattt agagaaatca 120
gtaacctttt gtttacccta ttttgaatcc taaaagaaaa agttcagtta tcatggccag 180
gcgcgatagt tcaggcctgt aatcctagcg ctttgggagg ccaaggcaga cagatgacct 240
cgtgattggc ccacctcagc ctcccaaagt gctggtatta cagatgtgag ccaccgcacc 300

<210> 995
<211> 300
<212> DNA
<213> Homo sapiens

<400> 995
aattccgttg ctgtcgatat atttggcttc tataaaaatt aaaaacccag ggataagaag 60
aaggggagag aattggaaag cccctggtta gctttaaggg cctctcagtg cagcagaaca 120
catgctggct ctattcataa ctttgctctc tggatcaata ttctgaaagt tggtacattc 180
ttttcatttg tgtctttcac agagggcagt aaaatttagc tctaattata tttagggcat 240
ctggattcta gtcagcattt tctggctccg ttttagaacc taaagtctgc ggcttattcc 300

<210> 996
<211> 300
<212> DNA
<213> Homo sapiens

<400> 996
aatccgttgc tgtcgaatgg gagccatgct actggtttat ttacaccaag ctggatggtt 60
tccttttagg caagaaggag gtcatcagca ggctcccaac aataatgccg aagttaacaa 120
tgatgggcaa aatgcaaaca acttggaact tgaagaaatg gagcgtctta tggatgatgg 180
gcttgaagat gagagtggag aagatggagg tgaagatgcc agtgcaattc aaaggcctgg 240
attaatggct tcagcttggt ctttcatcac caccttcttt acttcactaa taccagaggg 300

<210> 997
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 997
ctagatttct gggaaaacgt gactcgggtt cctctagaga agcagtggca gatgagagta 60
caaaggcaat ggggagctgg aggaaggcct taagcagggg cggcggcatg gtaaggtttg 120
taggaggact ggctgcagca gaggcaggga gaccagtgtg gagtctgctc agcagcccac 180
tgggaaggtg gtgatcgccg tggtgatgag cagttcttgg tagctgcatg tgaggagggt 240
gacaggtcag gaactctagc tcaggaaacc ctgtggatgg tggagggnaa gatcagtctg 300

<210> 998
<211> 300
<212> DNA
<213> Homo sapiens

<400> 998
aattccgttg ctgtcgcaat tgaaaaacac agaactgtac ggaatttaaa agtggaaata 60
tggcatctat cttccttgca ttccacgcag gtgtcatcca gccacaccct cctctctgca 120

gctctctctg caagcactta acacctggca tgcaccttcc agacctttct tgtataaaca 180
tgcatgcatc gttttgttgt tttctaacag gatcactata tgtgccattc taccacttgg 240
ttttttaat tcaacaaaat gccatgagta tcctttagtc tttttatgga cagccctagt 300

<210> 999
<211> 300
<212> DNA
<213> Homo sapiens

<400> 999
aattccgttg ctgtcggcgg agatggtcac cagaattaaa ggctgggaga atactgaaga 60
gctcaagtct attgagaact tagaagaggc cattagttct ggccgagaga aaagcattca 120
ggatttttac aaagttttgg taaatcccag tgagcgcaaa gctagactgc agtagatcga 180
gaagtgaata gaaagtgaca aacacagacg gagtgaaaac aactctttca gtaagttcag 240
tggtggagga aagatagctt aaagaggagg taatagtaga gtcagaacct tcaacctggg 300

<210> 1000
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1000
aattccgttg ctgtcggatt ttctccctag agtgactttg ggtctgtcac aggacttgct 60
gctttcccaa gtataaaaga acaactgtat tttagaaggg gctggttaaa acaccaggaa 120
agtactggtt aaatataatc tttgtacttt agactgtgtt cttatcacat atcagcctga 180
taagaggcaa cagtttcaaa aaagtatttc acttttgtat ttctaggtgg aacagacaag 240
ttcttcatgt tgttggggta ggggcagtgg agggtcaagn tcattatcaa acttttagat 300

<210> 1001
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1001
aattccgttg ctgtcggaga aaccaaacag gtaaaagcaa gtggtgaagc cacatggatt 60
aatgagatga tagaaagtac aaaatcacta tgtaagtcag attaaaaagc cagcttgcac 120
tctctgcttt catctttttg aagcaataac tattacataa atcagtgaat acagtatttc 180
tacagtattt gaaacggtgt tcacacccag caattccact tctagacata tatccaagag 240
aatggaaaac atgtgcacac aggcacttgt acatgaatat ttatggaagc attattcaca 300

<210> 1002
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1002
aattccgttg ctgtcgggtt tcgccatgtt ggccaggctg gtctcaaact cctggcctca 60
ggtgatccgg ccgctttggc ctcccaaagt gctgggatta taggcatgaa ccaccacacc 120
tggccaaaag caggtcttta tttttaatgt ccaatttatc tgcttaattt tgtctaaaaa 180
gatgatctta atgcatacat tagatgataa tttcctcttt gttccacttc atttcaacat 240
aattttttcc catatagtgt cttttaactt ttttaaagag gggatatttg aatgagacta 300

<210> 1003
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1003
aattccgttg ctgtcgccaa agtgctggga tgacaggtgt gagccattgc gtccggctgg 60
aatttcttat ggttcgtttc cttaggttaa agattcagaa gtaggatttt tgaattaaag 120
aaactaaata ctgtctatgg cgcttgatac atcttgccag gcagttatca gacagggttg 180
tactggtttg cgccacccca gaacgtgtgc aaggcctgtt tgtggaccct ccttggcctg 240
gctgtctagg tcatccacct gcgtgtgctc acagagcata tggatttttc cctgcggtgc 300

<210> 1004
<211> 234
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(234)
<223> n = A,T,C or G

<400> 1004
caacaacatg gtctctgtcc ctctctcttt gactctccct ttgtcctccc catagagctg 60
gggtggggtg gatccctata cctggggcag gcagccccaa agtgggggag ggggatggca 120
gagactgtaa aggcgccact ggactctggc aaggccttta ttacctttac tcccctccct 180
ctcccatcac cagcctcaag gcctgagggg tgcaggggct cctggnagct actg 234

<210> 1005
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1005
aattccgttg ctgtcggcca ggtactatta gaaataagac aaaaatctct gcctccaaag 60
agctcccaga gctcttggga gtaagggttt ggagtggggc agacaaaagt acacaaacca 120
ttggaccacc tgagccaggg gctgtgatag aggcctggcg atagtgggct tggcaggaag 180
cacttgtggc catttgggaa aggggcacat tgctgtaaga tgctgaatgg ccaatgcctg 240
gaataaggag ggtgtgcctg tggcaaagga atatcccagg tgctagggtc cagcccagaa 300

<210> 1006
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1006
aattccgttg ctgtcgatga atagtactca aagtgttttt gttgcactgt tactctgaat 60
atggactctc tatatctggt atggcgtgac tgcgcataac ttctgtaatg tatttcagtt 120
atntntnttt ccttntatng ccnncttatg atnatgacac nctccncnng gatgnagata 180
tatggaacca tatnttataa naacccctgn ccnntnttnc ttctgacctt cagttcactt 240
tgtcgccctt ggagaaagct gttnttcttt aactaaaaat aaccaaaatg ctaaaaaaaa 300

<210> 1007
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1007
aattccgttg ctgtcggata aataagatac tgatgttgta gatttctttt tgcaaagatt 60
atttctttac caaatttagc ttgtgactta tcttgcagtt ataagacatt cctaacatgt 120
gactgttaaa gtcttggaga tggtagtatg gtttctttat tacttttcat tatttctcat 180
gcaacaaaat agagcagagt ttattttaaa atgtgaaaag ttacactaat gaaattcatt 240
ttattagtgt tgaaaataag gaagtaatta gagcatttct ataataaata agtaaccatc 300

<210> 1008
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1008
aattccgttg ctgtcggcag ggtcattcc acattaccag agcttgttcc agagaggcag 60
tgggaggctc cacaggcagg cttggagggt gcttggccct aatactaaat gttggacttc 120
atggcattaa cgaaggggaa tcactggagc cttttagtat gaagctaatc tttttgtcca 180
tcacaggcaa cttcttgcct acactctttt acaatatggc atttatgaca tagccaagag 240
cgaagacacg ttgaacactg acttaatgct ttgagtaggt ggagagttga atgactcaag 300

<210> 1009
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1009
aattccgttg ctgtcgcttg tttttaatgg ctcaactgtc tgatgtaatt gagtgaaggt 60
ttgcactgag aaattagcat tcaggcctta cccccatgaa gtattactgt taacatatgt 120
tcggactgct tcccttcacc aatgtgaaca actttttttc ccaaacagtg ttaaaagcca 180
ctttgcaaca cttgacttca tcttaatgta cattcactgt tgttacatac atatctaagt 240
aaatcaaagt tttgggtgga agtgttgaga agtatgagtt ttttgttgtt tttgttttac 300

<210> 1010
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1010
ccgaaaggcc ttgtctgatg ccattaaaaa atggcaggag ctgtcaccag aaaccagtgg 60
aaaaaggaag aagagaaaac aaatgaacca gtattcttac attgatttca agtttgaaca 120
aggtgacata aaaatagaaa agaggatgtt ctttcttgaa aataagcgac gacattgtag 180
gtcctatgac cgacgtgctc tccttccagc tgtgcaacaa gagcaggagt tctatgagca 240
caaaatcaaa gagatggcag agcatgaaga ctttttgctt gccctacaga tgaatgaaga 300

<210> 1011
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1011
aattccgttg ctgtcgcgga aatgtccgaa ggcagcagta cttgaccctg tattttggga 60
gtcgaacgga gaatggaaac tgaaagtgga aatcaggaaa aggtaatgga agaagaaagc 120

actgaaaaga aaaaagaagt tgaaaaaaag aaacggtcac gagttaaaca ggtgcttgca 180
gatattgcta agcaagtgga cttctggttt ggggatgcaa atcttcacaa ggatagattt 240
cttcgagaac agatagaaaa atctagagat ggatatgttg atatatcact acttgtgctt 300

<210> 1012
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1012
aattccgttg ctgtcgccca gagactggct cccagtgagc taagcccagc cgcgaccctt 60
ggatgtgcca gctgatttaa tactcatgat aaacccagta ggtcagtgcc agtattatga 120
gagaagtgag gcacagaatg tcacatccac ctccccaaag tcaacagcta ggagtgacag 180
agccaggatt ctgccaggca ggttggcctc agaggccaca cttcttatcc caataataaa 240
agtgaacaag aacaggatga agttagagtg agagagcgag agtggtaaca ctcatgcaat 300

<210> 1013
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1013
aattccgttg ctgtcggttt catcttcttt gcccatgtac ttcactcagt ccataatgct 60
cacctctgcc tctgaaactg cccatcccct aagacccagc tcctttgtca cctccagtga 120
gaagcctccg ctgcttttct ttcctcctct tggtcccctg cagcactttc tttgaacctc 180
tgttttggca cttaccatgt tgtttggtga gggctctgtt tacttgtctg tttctttcac 240
tgggctgatc tcctgtagac aggggacttt gcagaacatg tggtggagag gagtcggtgg 300

<210> 1014
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 1014
aattccgttg ctgtcgagcg attagacctg tcataaagtt tgaaaaattg attctggagg 60
cgaagtgaat agattgagct tgacagtgtt gtcctaaaga ttctaaggga aaattctgta 120
gtttaatttg aaatcccttg attattcatt agctttccag atggcttttg ttgatgtttt 180
acatattaat gcctgtattg tgttattggt gtactcttaa tgtgcacata ggtaatgagc 240
anagaatana tacattggta agtgtcccan attaatggga tattancgta nttgcgaa 298

<210> 1015
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 1015

aattccgttg ctgtcggctt actactaatc aaagaaacag attaaaacta cagtaagatg 60
tcattattta atttattgat tgtggaaaga caaaagtacc agatgatacc agatgatgac 120
aaggggtaaa caggtacttt attttattta tttcttaaac attatctttt tttttttttg 180
naaanaccnn gcccccccggg tggnnggncg ggnnnccant ntaanttggn ngnaccntnn 240
cccncggggn nnaagggnnt ttnccnncnt aaccccccc 278

<210> 1016
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

<400> 1016
aattccgttg ctgtcgggaa agtcgtggag ggtaagcaca gtcctgaaga cacaggatgg 60
aaaccccagg atgagaaggg agcagggaga gttccagaaa gggggatgaa ataggagtat 120
taaaaagctg cgttggccag ttnttcatgn ancnnttgnt gcnntnangc gtatnttanc 180
cttgctntat antcttntnc tntnnnnttn cnnntnntan tntaactttn ttntntnnac 240
nnnnnnnnnn tncgntgnnt 260

<210> 1017
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1017
aattccgttg ctgtcggcaa gcatcaccgc tgtctaattc cagagcattt ctgtcacccc 60
aaaaagaaac tccatgccta ttagcagtca ctcccagttc ttcccttcct tttctcctac 120
ctcctttgac taagcctccc tcccctactc cctcctttcc ttccttcctt ccttcttctc 180
tatcaatata atcactttgt ttctttcagg tgagatcgga ctggaactgt tcggctgcga 240
ccagaaattt attttcctga gtaaattgcc gagaattaag aatgaagagg gccatttgca 300

<210> 1018
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1018
aattccgttg ctgtcgctag ttataaaagt gtaatttcta ctgtgtcata atcagccatg 60
cagctggaga cttgccctct ttgtacagca aagttgtgaa aaaaagtatt tgcactacat 120
ttatttaaac attaggaaaa aaagccaacc catgcttttc tttgccgaga tgtagggctg 180
tattattggc tagtgagaag cctgggaaca ctaggacttt gtgtgggctg attgcaggta 240
tcagatccgg gattatacag gtactgttgg aagtatcttg gggattttcc tgataagaac 300

<210> 1019
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1019
aattccgttg ctgtcggaac tctttaagaa agctcaacag ggaaatgaag ctctagatga 60
aatctgtttt aaagtttggg cctgtaatac agtccgtgat atactggaag gcagaacaat 120
tagtgttcaa tttaaccagc tatttcttag accaaataaa gagaaaatag actttcttct 180

tgaggtatgt tcaagatcag taaatttaga aaaagcttca gagtctttga aaggaaacat 240
ggctgctttt ctaaagaatg tgtgtctggg gttggaagat ctgcagtatg ttttcatgat 300

<210> 1020
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1020
aattccgttg ctgtcgggaa tacaaataga tgacctgtta tctgtgtcag cttttgatac 60
tatctgccct tcacgtcttt attcttagat tgtcatctgt gggtggaaaa ccttaagttt 120
ctacccatag aaataagccc accatatttc agaaaacatg gtgggtcata ggaaagcact 180
cagatgggac aacctagttg gatttggtac aaaatgagcc agatgtggga aaaggcaaat 240
taatatgatt atgaaaagta agaatgatgg agctgggtgc ggtggctcag cctcccgaga 300

<210> 1021
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1021
aattccgttg ctgtcgattg attttagtgg tattggagaa aattaaataa ttaggaggca 60
tgtttaaaga catctacaaa gcatcctaat taatttggag tgagtctttg ggatggcttc 120
ccaattctga gtcccaagat taaacaggcc aatcttgggc cgggcaaagt ggctcatgct 180
tgtaatccca gcacgtcggg aggccaaggt gggtggatca cctgaggtca ggagtttgag 240
accagcctga ccaacatggt gaaaccccat ttctacaaaa attacaaaaa aatttagcct 300

<210> 1022
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1022
aattccgttg ctgtcggtgg ggtttcaatg agagaatgcg tgtaaaatgc ttcgtacaat 60
tactgccact tatgtctcaa taactgctgg ctttggtcat taataaaaga gggaaacaac 120
attatcagat ctgtatttag aaggagttct ggcagatagg gacagatttg tgccaaaatc 180
tcaagacagt atttttcaag attacactga aacttagtac atatttatat tatcatacat 240
ttttaaaaag gtcaagatga ttatagttga aaccacatag ttcttttttt aagaaagtca 300

<210> 1023
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1023
aattccgttg ctgtcggatt tgtactatta agagagaaaa aatatgccac acaactaaac 60
ataggttgaa attatgaaga aatttagaat agaggtttat tagatttagg gaacactaag 120
aacaaaaaag gaaggagtga tacctgcctg agtggacagc tgtaaatcag ctgtaattac 180
tgcagttgta ccaatagttg tgagtggctc cagtcacttt aggagtcctt ggaagtactt 240
ggtacacatt tgttggctgt accttaaagg aagtggcaag tccagtttgt tctctctacc 300

<210> 1024
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1024
aattccgttg ctgtcgataa ctttttactc atatcattgt ccctatatta gtattaagag 60
cattttgtat aaaacttcat gtgaggatct caattcttta taattctctt caaagcaagg 120
aagtatatat agagagacct ttattttta gtaatttttt caaatggttt gggagatctt 180
attctagccc aattctattc tggcacttaa ttattttctg gtggcttgta atatggtaaa 240
tactggattc cagattgcat tcctatttcc ttgggaggtg aggatactcc catttgtaca 300

<210> 1025
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1025
cgcgcgttcc agagctgggc gctgcagctg cactgccgat cgccgtgttt ggtcgataga 60
atccccagtg tgcccagaga gtgcgacccc tcgcccggcc cggcgagccc cgggcgtgaa 120
ccgaactgag ggaggatggc agcctctggg gtggagaaga gcagcaagaa gaagaccgag 180
aagaaacttg ctgctcggga agaagctaaa ttgttggcgg gtttcatggg cgtcatgaat 240
aacatgcgga aacagaaaac gttgtgtgac gtgatcctca tggtccagga aagaaagata 300

<210> 1026
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1026
aattccgttg ctgtcggcta ccacccgctc ctggtgtctg agttttagca gagcttttgc 60
cctctgagga ccccacccca gcctgcagat atgaaggtgg cggtgctgtt ccctgggagg 120
gacccctgaa tagatggacg ggagggactc tggagccaag ggtctccgca acgtcactgt 180
gtggatggga accctgagat ccagggttgg ccagggatga ccacaggcat cattcacacc 240
actccttcac cgcaggcctg cctggggtca gtggcgccag ccccacccag cccctggact 300

<210> 1027
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1027
aattccgttg ctgtcggcaa cttcaccatc ccagacaatt ctcgttactc ccgtaacata 60
cattgcttaa taaggttcat gcttgaacca gatccggaac atagacctga tatatttcaa 120
gtgtcatatt ttgcatttaa atttgccaaa aaggattgtc cagtctccaa catcaataat 180
tcttctattc cttcagctct tcctgaaccg atgactgcta gtgaagcagc tgctaggaaa 240
agccaaataa aagccagaat aacagatacc attggaccaa cagaaacctc aattgcacca 300

<210> 1028
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1028
aattccgttg ctgtcggttc atatgcagac aaagcacctt caagatcttt gaatgaactt 60
aaacaatacg gatttttctc ttatttgaga gaattatttg atgcacctga tcctgtaatg 120
agttaccttt gctgtcagta tcatattcat gaagttcctg taggaactga aaagaccaga 180
gaaagaattg aacgggtaat acaagaaacc cgattaaaac agatttatac agcagaagaa 240
aagtatgtgg tgaaaacttc tttttattca aacaaagtta tttctagtaa cacatctcta 300

<210> 1029

<211> 257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

<400> 1029
aattccgttg ctgtcgataa tttctctgaa agtctttagt gacaaagcca aatatagtat 60
tcttgatttt tacgtcttca ctctttaccc ccttttatac tggtttcttc tcagattaac 120
atcttatatt cnatgaagnn gangganatn tattnctggc tttannnnnt ntacnnccnn 180
nnganсnnct ntgtnnccnn tnnnananсn cnngtncnna tttttnnntn ctgctgaann 240
nccanttctc nctntta 257

<210> 1030
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1030
ataatactaa aatatttact ttagtgtttc ttgacattca aaaatgtcat tggatttgta 60
attcaggtat catatttgaa aatgagtctt ttaaaagata acataaatat ctttattttg 120
acacacaagg tcaagactag aaatgtgttc ctgggtactt tcagcctact tggtttaatc 180
aaattgcttt tgaatatgaa tgtcctaatt taattctttg gacctttgag gggaggacac 240
tatcacttct acatatgtag agaagtaaaa gtctcataga tccatcttgc tttaaaaata 300

<210> 1031
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1031
aattccgttg ctgtcgattc ctctatattt aattttgaaa acctaaaaga aggattgtgc 60
atcttgagag aaagttgagc aaattgtgat ctaccggaat gttaatttgt gctgcttctt 120
gtgcacgata gcagcagtag tatctctctt ggaaataaac atcccatatt atgatgtcta 180
tgaatatagg tttccttttc ttccttccct ccctccttcc cccacctttc tctttttttt 240
ttctctctca gcttctcttt tcctccttcc ctcttccctt cctctttctt tacttttttt 300

<210> 1032
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1032
aattccgttg ctgtcggcgg ggaggacgta ccttgtgaga tgcgagccgg ccaacagctt 60
gcaagcatgc tccgctggac ccgagcctgg aggctcccgc gtgagggact cggcccccac 120
ggccctagct tcgcgagggt gcctgtcgca cccagcagca gcagcggcgg ccgagggggc 180
gccgagccga ggccgcttcc gctttcctac aggcttctgg acggggaggc agccctcccg 240
gccgtcgtct tttgcacgg gctcttcggc agcaaaacta acttcaactc catcgccaag 300

<210> 1033
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1033
aattccggtg ctgtcgacaa gaacaaggtt gatagcgttt ttcttgacac atgcacttta 60
agctccaaga ggaggcctcg agtcagctca caacaacatg ccaacagtga ctctgtgctt 120
actttgtgcc aggcagtctc tagccacttc acatctcact taagttttta ttagagtctt 180
aatgaagtgt gctctctccg acctatgccc attactcaaa tgctgcgggt ctatttcttt 240
acttataaaa tgaggttaat aatgcctaaa aaaggattgt catgagaatt aaacaagtta 300

<210> 1034
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1034
aattccgttg ctgtcggttt aaatgttttc ttcgggatta aaaaaacctg aatgtattct 60
gggaaaatgt taaatggatg caacactata agattttcca cagaaatatg ttattcaccg 120
tgaagcacaa tgggaaggct ccattagcac tttagatggt atcataactt tggaaaaacc 180
atttcaccat gcgagtattt acaaaaactg aagctgtccc tgtcaggttt tgacagagct 240
tagctatata ggtagtaagt gacgcagtgc caaaaccagt cttaaattac ctatgttgtc 300

<210> 1035
<211> 274
<212> DNA
<213> Homo sapiens

<400> 1035
aattccgttg ctgtcgggga ccacatcctg cttcatgtca gtgactcctg ccccttggtc 60
ttcagtgttt ttctcttccc caggagggac tttgatcatg caggatagaa ttctcccatc 120
gcacacctgg gggcaagttt tagatgagct tctttcctcc atttcacctg gtggtctgag 180
gacacacaga gggtgggggt gagcaggcag tgtgggtggg aggggctacc tcccccagac 240
cccttacaaa ctctgtacct ctcggtgcgc ggca 274

<210> 1036
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1036
ttgcgtctga gacttctant ccgntcttgt tctttttgca ggatcccatc gatccttcct 60
gaccttccac ctccaccagg tgccgacact tccctgaccc cagtaacctc ttctcttggg 120
tgggtgaatg ccacctgctg atgtctgatt tattcatcgg ttttcttgtc tgtagtctgt 180
ccccccttggg gacagggact cgttgctcat gttcacccgg caggctggac acttcgtgga 240
gggctccaaa gccggcagat cccggggccg cctctgtctc tcccaggccc tgcgtgttgc 300

<210> 1037
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)

<223> n = A,T,C or G

<400> 1037
aattccgttg ctgtcgaaat attgttttaa aatgcatcag cctatgctat acaatctgaa 60
tgttatttta acttataggt ttttttaata tatatattta actataagga cagtttaggg 120
aacaagttac ctaccacatt tcactttagt gtacctattt acagaaagat taaactgcca 180
cctgcgggca cattcccata aatgtgnact ttactttaaa aagaacatgc cacgattttg 240
tctttctgtg gactcaacat tcacttcgat taaaaatagc aatttgacca agttggactt 300

<210> 1038
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1038
aattccgttg ctgtcgcttc tccacctcat ctcagcttag ggactggtta gatcgtccag 60
gtgacaacac atgcttctga acctacacat ctgccttgct ttctgaaaac aattttctaa 120
tgtttttgaa aaagtaatgt atgcatgtat tgtatccatc agaatcctag aaggacacag 180
agaatgctct taaactgggg agtttctgga gagtttaata aagatgtggg ctgggcgcgg 240
tggctcacac ctataatccc agcactttgg gaggccgagg cgggcagatc acttgagctc 300

<210> 1039
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1039
gtgaaaaact atcactttca acaatgaaga atagtaatat gtcataatgg agattatgaa 60
gttcagaaag ggtaaatgc agttttgggg agggctgaga ctaagagaga acacaataag 120
acaggcaatt aagactgaca tgaaagatca gtcacattga taggatatac tcttgatatg 180
atataatgag aatggcagtt taccgctgtg gttttctttt cccaaaaccc ataaccacag 240
cctaaccatg agaaagacat caaacaaatc ccaatttggg acattctgta gaatacctaa 300

<210> 1040
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1040
aattccgttg ctgtcgggat cctcatgcgg aagaatttga agacaaagag tggacatttg 60
tcatagaaaa tgtaagctaa tggcaaattc cttcaccttt cacattttca actttatata 120
tgcattatta aggtacattg gcattttggt ggtaggaaaa atgttgcctt aagaaaatta 180
aatagtgatt tgtagctttt agaatgtttt taatgaaatg atagccagta acaaaattat 240
ttgtaagaaa tgcttttatt aacactgtaa gtcttcaata ctaaattgta tgtatgtttg 300

<210> 1041
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1041
aattccgttg ctgtcggtgg ttttaaacac cacttttgag atgctaaaaa ttcagtccca 60
atgggacttg ttcaaattca gttcagtttc tggtcatcaa aaaatcaatc tgttttaaga 120
tctagtctta cccatgaaaa ctttaataat ggtagatatc taaaacatga gttaattacc 180
cccaaaatgt ttcagttttt tcattgttat attgccaaaa accattctgg ctatatatat 240
ttttaaaaga agccatttgc atgtccttta gtggtagaat agaaatttgg ttaaaattgg 300

<210> 1042
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 1042
aattccgttg ctgtcgggag cacttggggt ccaagaatgg caagatcagc aatcagcaag 60
aagatcacca ttgctgactg gacaactgca ataaatttga cgggtgtttc tcttaaaaaa 120
aaaaaaaant nctgggacan accanggacc cntgngttcn catgtcntgg ggnccagttt 180
ttaactgggg aanccgnggn nggcntggaa aaggaggcag tgnccgngac tgtgctgttt 240
tccgaagccc cntgcctgct gcctgttcct cggtcctcgg ggctggactg gcgtt 295

<210> 1043
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1043
aattccgttg ctgtcgctca aaggcactct catgacagac ggcgtgggga gcacagagga 60
ggctggcaga gctggggact gagggcattg ttgctgattc tcactcaccg gggcagcctg 120
ccgcagatgc acaggcccca ggtgcaggcc accacctccg ggtcggcacc aggactgccc 180
tcggtgctca tagggaatgg ctgggcccac ggaaggtcgg cctgggatgt ggcctgggac 240
tgctgctctg ctggctgctg tgtggatgct tttcctggag cactttccaa ggcatccccc 300

<210> 1044
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1044
aattccgttg ctgtcggtag gaaaaatccc attctaataa ggttatattt atgtagctct 60
gcaaataaac atctagcaaa tgtaaaaagt attttctttg ccttaaaaat gattaaaatt 120
atttgaactc ctgaggagtg ttatatgaat aaaattagta agttatttgg aggaaagtta 180
ttttttaaaa agacaactgg taaaacagta caggagaaag gccagcttcc tcaagtgagg 240
acagttgttt agaattgact gaggagcggc cgggtgcgga ggctcacatc tgtaatccca 300

<210> 1045
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1045
aattccgttg ctgttcggtc tgcgtacgcc tggagtcctt ccccgctgtg ctcagcatgg 60
accctatcgg gagcttctgc gggaagctgc ggtctctggc cagcacgctg gactgcgaga 120
cggcccagct gcagcgagcg ctggacggag aggaaatcta ttgtttagat tatccaatga 180
gaattttata tgaccttcat tcctaagttc agactctaaa ggatgatgtt aatattcttc 240
ttgataaagc aagattggaa aatcaagaag gcattgattt catacaggca acaaaagtac 300

<210> 1046
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1046
aattccgttg ctgtcggacc aacttgatga tggcatctct tttaagatgc ccaagtctgc 60
gcacttttat tcctttattc ggcccctagc accccctccc caccccaaag aaggtcagtt 120
gcatgcgtgt ggggatgtag ctcaaaaaag aaataagatg gagtggaaag gaaagaaagg 180
aagaagcagg aattcaaggt gggtgggctg agcttggggc cacctagccc acctgctcca 240
atcaagggct ggaacaaacc tgaggccact tggagaggca gggctgggca gggacagggg 300

<210> 1047
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1047
ctacttgttc tttttgcagg atcccatcga cagatcctgg taccccctgc ccgcgccgat 60
ataatgcttt ttcgcccccc tgggacctcg gacttgggct tccctttgga catgaccaac 120
ggggcagcct tggcagccaa cagcaatggc atcgccggca gcatgcagcc agaggaggag 180
gcagctcggg cggctggtgc agccattgca ggccaagcct ctttgcctgt gttacctggg 240
gtggaccgct tgcccatggt ggctggaccc ctatcccccc aactgctgac ttccccattc 300

<210> 1048
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1048
aattccgttg ctgtcgggag gtcggactca ggaggctcct tctccactcc cggaagatca 60
tgtaccagcc cagccggggt gcggcccggc gtctcggccc ttgcctgcgc gcctaccagg 120
ctcgacccca ggaccagctt tatccaggga ctctaccatt cccacccctt tggccccact 180
ccacgacaac cacttcccca tcttctcctc tattctggtc tcccctgccc cacgccttcc 240
cacccagcgt cttccccagg ttcccccact acctctccct cagatccagg ccctcagctc 300

<210> 1049
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1049
aacaaaacca aaaagatgcc cctttttttg tagggataag aaatacattt gttttatact 60
tctatgctat attttgctat tcaaaattta gtgggcatta cttaacattg tttctaatta 120
ttttgtggct gctgtatgtt ttatgtgttg ggagcccatt gtattaggcc gttcttggat 180
tgctataaag aaatacctga gactgggtaa tttggttttt tggtttttttg gggtttttttt 240
tgagacggag ccttgctctg tcgcccaggc tggagtgcag tggcgcgatc tcggctctat 300

<210> 1050
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1050
aattccgttg ctgtcgggac atttagtctg cctgggtttg aatcctagca ttgtcattta 60
caggtaagta tcatcttggg caatgcatct ataaattggg ataataatac caaattggaa 120
caataatgat aggttagttg taatgattaa atcaaataat gagagtaaac tcctggagta 180
gtgactgaca catggcatgt aataaacatt tttctttcta cgaggtattg atatttatta 240
acctcttaaa agcaatttgg actccctttg tctcttattg tcctgtgaca gttaccatga 300

<210> 1051
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1051
aattccgttg ctgtcgaaat ggaggtaggg acagatcttt caagggaggt gtgggttgtt 60
tatattttta acacaattgt aggcttctct tttgagaagg tagatttccg tgttgtatct 120
gatcatggca gtgtctcaga aggctgagtg tctgccttaa gtttacgttg tcaacgcagt 180
ttagagggta aacatgtctg tggacatagt tgaactgggt ttttgaagat gtaattacca 240
atttacatca tggccaaatt ggaattatta tttttaattg gaattattat ttttaaaaaa 300

<210> 1052
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1052
aattccgttg ctgtcggtgc agtggcacat acttgtagtc caagcttcag aaggctcaag 60
tgggaggatc gcttacaccc aggagattga ggctgcaatg agctgtgata gtgccactgc 120
actcagcctg aatgacagag ggacaccctg tctcaaaaaa aaagtcagtt tctcacttgg 180
actaactact ttttaactgt taatagctgg tggctgccat actggacagc ccaagactag 240
aggctcaatg ggctgttctc cactctctgt ccaagggaac cttcctttat gtgctttttg 300

<210> 1053
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1053
aattactagt gggggagtaa ggggacaggc cattgggcat actggagcag catttactca 60
gtcattgaga aaaggatgga acattcaata aagggtgctg gacacatttg tgctctaaaa 120
attttgtgtt tcacctatta atttatccct ccccttagcc cctggcaaac actgatctgt 180
ttactgtctc catagttttg cctttcccag aatgtcacac ccttggaatc atacagcatg 240
taaccttttc agattggctt cttttacgta gtaatatgca tttaggattc cttcatgcct 300

<210> 1054
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1054
aattccgttg ctgtcgcaca aatactcact gttgaaatac actggagaaa catatatata 60
aagtgttaag aataaaatat gacccatatg cacaaaaccc aggcagatca ttcttcaagt 120
gtaaaggcca tggataggtg ctcgcaagca tgaaagccct tggggaagat ggtgtccaac 180
tttgggttgg ggcccgtggg aggctgaaca aaacctagcc attggggagc tgggtgaagt 240
cagagacagg aggactggta ggaaggagag aacctctttc cttatagaat gactaagcaa 300

<210> 1055
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1055
aattccgttg ctgtcgagat tttactatta tacactaaat tttcaataat gattagaatc 60
tgaaaaaatt tgaaattgtg aataaaatgc ttttaaacat tttatcaagc attacaaaag 120

tagagaatag tataatgaag caacaccaag cttcaaccat tgatacatgg ccagtctttt 180
ttaatctata cccatccctc ttcagtcatc cccctccac cctaaattat tttgaggcaa 240
tatctctaaa agatgaggac atttttaaaa acaaatataa ttttattatc ataaataaaa 300

<210> 1056
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1056
aattccgttg ctgtcggggg ctgttggcat aatcacaagc ctgtctgtct tcgagaaggg 60
acagtggagt catccagggg ctgccacatg acaggcacgg tgggcaccga tccacagtgg 120
gccccgcctt ccccagctcg cctccctgcc tgtgctggcc tggccttgcc tgctggcacc 180
attggagtag gagggggtgg aacacagggg gcccatcctg atcaggcccc atctcaaggt 240
tggcactcct gcccatcacc cttagaagga tcttttccca tggcttgact tccttcattt 300

<210> 1057
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1057
aattccgttg ctgtcgggat gctgaaggcc tctttccccc ctgctgttgt gtggggatca 60
aatcagttgg gggcctagac ttaaaaggga gcacgtggtt aggaaatctc attagctgac 120
aatttaactc cactctaatg ctcgtccaaa gagcccggac aaagacttcc tctcctttcc 180
ctttgcagtt ctttctcctt gctcctctct tctcccctcc ccctctaaac cagaaaggaa 240
aagcagcgtt gggcctgtct ccttcccccc agattcctgc agttctagtg tgccgactga 300

<210> 1058
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1058
aattccgttg ctgtcgctca attgttgttt taagattgac cttacctgtc tgttgaaatt 60
gaccatagca catccttgat ccttgagatt ttactattca acctgttttt ctgtttttgt 120
tgttgttctt ttcactccct gaaattagga gagtagtaca tatttgtgtc ttcccacagac 180
gatacagact ttaagatgta gaagctcatg gttttataga tgaagggatt tggaactctt 240
cccttcaggg tcaatgtact tgattgtctg aattaaactt ggttcccaag ttaataactc 300

<210> 1059
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1059
aattccgttg ctgtcgaaaa aaaatttaat ttgaacactt ctgttttgtg cagttttctc 60
tgttatattt tactttttaa aaagaaaaag cggctgagcc accacgccca gcctcacatt 120
tttattttaa aaacctctcc aggctgggcg cggtggctca cgcctataat cccagctgtt 180
agggaggcag aggtgggagg acagctcgag cccaggagtt ccagatcttc tgcctgggca 240
atataatata gcatgaccct gttctaaaaa aaaaaatctc tgaaaaagat gattcaaaaa 300

<210> 1060
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1060
aattccgttg ctgtcgtgaa aaaggaaaaa tcacaataat aaccacaaaa gtacaaaaga 60
tcattacaga ctattatgaa cttccatata cttacaaact agaaaagcta gaggaaatgg 120
atacatttct ggaaagcaag aaggaataga aatcctaaac aggccaataa tgagtagtga 180
tattgaatca gtgatttaaa aaatcttcca ataagaaaaa gccaggaccg aatggagtca 240
tagccaaatc ctaccaaaca tataagggag aactaatacc aatcctcctg aaattgtgcc 300

<210> 1061
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1061
aattccgttg ctgtcggata gggcaatcca agagacatag tcctaacccc agagtagcat 60
gtaatccctt cttagcatcc ctctttgaaa actgaagata gtacagctga gggaactgaa 120
caggttccca ggatcataga gaatcattaa gctgaagcaa acaaacaaac aaacaaaagg 180
caaactagaa gaaaagcagg attcaatggg ttctgcacct tcttagtcta tcattgcttt 240
gtaaacattc tccggtttta cattactaca gaatatggtc cagatataaa gttctactgt 300

<210> 1062
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 1062
aattccgttg ctgtcgcaca actggccagt ggcagggcta ggatttgaaa gcagttcttt 60
tccattttgg ttgttggtga ctcaaagtca ttctgaactt tcagaattca ggtggttgat 120
ggggtggggt gggggtgtcn gtntgnntct nttnttcctc tttaantgct cttatcnncn 180
tannccatgn atnannnctn ctnnnnnngn tcatctntnc nntctannga tttcntttgt 240
nannaacttt nnatcgnttg tcnnatgann ntnnntgttc tatct 285

<210> 1063
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1063
ctctcccccc ctccctctct cttcctttcc tctctcttgt tgtaactggg agtggaggcc 60
cactggctgg ggagacatta ggtggtgggg cccagcccga cctccaggtt cttccttctc 120
cctagctgtt gctttggtct ggccactccc agcccccttg tccccttgga agcttgccct 180
gccctcatct tgcccatgcc ttctactgcc aggagacttg cacccatttc aaccctaggg 240
cgggggcaag tggggcaagg atggaccagc agaagggggg taaggctctg ttcacttccc 300

<210> 1064
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)

<223> n = A,T,C or G

<400> 1064
aattccgttg ctgtcggacc ttacctgtat tccctgtgct atcctgtggg aaggtaggaa 60
tgggctaagt atgatgaatg tataggttag ggatctttng gntntaaatc ncagacaanc 120
taattcaaac tggcttaana tganaaggat ttatngnttc atgtaactag aangatnnta 180
ncnngngttt gnttcngnnn aagantnngn cccncggnng aattaccntn tananccnna 240
ngganttngg ntttaaannt ngtgtnnnnt nagggttntg nattaaaaaa 290

<210> 1065
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1065
aattccgttg ctgtcggagc tcgtgagtgg gcgccgccgc caccgccccc gccgccgtcg 60
tctcggtagc agccttcgcc acgccggggt cttcagctcc actggggcca tgtcagagcg 120
agaagagcgg cggtttgtgg agatccctcg ggagtctgtc cggctgctcg cagaggacgt 180
gtgctatcgt ctgagagagg ccacgcagaa tagctctcag ttcatgaagc acaccaaacg 240
ccggaagctg acggttgagg acttnnncag ggccctcaga tggagcanng agtaggctgt 300

<210> 1066
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1066
aattccgttg ctgtcgccaa ggtggatgta gaagcgggct ccggcgtccc actctccctt 60
ccatatgggc ttagcgtctg ggtcactgag aacgacgtct gaatagggcc ctgggtcctt 120
gccatggatg aatgtggttc ccgcatccgc cggcgggtgt ctctccccaa aaggaaccgt 180
ccaagcttgg ggtgtatttt tggcgctccc accgtggtcg agctcgagcc cggagatgag 240
gggaaagagg aggaggaaat ggtggctgat gaacaggagc tggaaaaccg cgggcgtact 300

<210> 1067
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1067
aattccgttg ctgtcgcaga acacctaggt cctagcataa gccccacctc ctccaggaag 60
ccacctgact ccctccagca acagctctgc actttacctt tgtattctct cctttctgac 120
tatggtcagc agacttctaa gacggccccc aaagattgcc acctggtatt catgtgctcg 180
tgttatctcc tcctcttgaa tgagctggac ctagtgactt ctagtgcaca gaaatgtggt 240
gaaagtgatg ggataacaat ttccagatta agttataata gacactgtgg gctgggtgcg 300

<210> 1068
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1068

aattccgttg ctgtcggatc ttggagagtt tctcccaggc tccttgtgaa ctgctccgct 60
ggtgtgggag aagccaaagg ggcaaagctc aagacggtgt ctcccctggtg agggcagtta 120
cattggcata agttgtctag cataacttgt catgccgacc ccttttcaag atagcagctt 180
cattcactga taatgtggca gtgttcccct tcatcagtgg aagacatggg atgtgttcta 240
ggggaattta tagtacttga catgtatgag ggaaattcta ctatcaatta agtacaagag 300

<210> 1069
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1069
aattccgttg ctgtcgggct gtacaaaagg tagacataat agtgagaagc cacctgagcc 60
agtcaaacct gaagtcaaga ctactgagaa gaaggagcta tgtgaattaa aacccaaatt 120
tcaggaacac atcattcaag cccctaagcc agtagaagca ataaaaagac caagcccaga 180
tgaaccaatg acaaatttgg aattaaaaat atctgcctcc ctaaaacaag cacttgataa 240
acttaaactg tcatcaggga atgaagaaaa taagaaagaa gaagacaatg atgaaattaa 300

<210> 1070
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1070
aattccgttg ctgtcgcaca tacacacaca tacacacaac acatacacac acacatacac 60
acacatacac atacatacac acatacacac acacatacac atacacacat atacacgctc 120
acagacacat gagtgaatct acatggaata tcccttgaat aaaatgcaag caattggtta 180
tagtgattgc cactggggca gggaactagg aacttgatag taaggcttgg cagaaaaatt 240
actccttatc atacacagtt tttggtattg tttgagattt ttaaaatacc atacatgtat 300

<210> 1071
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1071
acttcgattg aattcccgga gctgtcgatt tagttatttg aagagaggtt ctcatttcct 60
agaaaagata tgagaaaccc aaatagaaaa ttattagaga tctttgagac actctattta 120
cattctggac ctaatctttt tgaattgtct tatatgagtg agtactttgt ggcagaagat 180
ctagacattt taataaaaca ttttaataca aatatctaga tattttagat acatatttaa 240
gtatctaaaa ttcagacagc caggggtggt ggccgtatac ctgtattcct agctacttgg 300

<210> 1072
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1072
aattccgttg ctgtcgccgt tgctgtcgga acattcttcc ctggaaccag tgctccacat 60
ctttcttttc ctctgagagc tgcagctggc agggacctcc ctctgctgct cctccagcaa 120
gccacagagc ataccctcac gtgacaagag tgtggtaggt tttctcccca cttctcacac 180
acgcctggtg gttgtggttc catctgcctt gttggcttgc ccgggggat tcaacacttg 240
actttcaaat caaagaatgc taatgcttag cacttgctgt tgagcatgct ctaactttta 300

<210> 1073
<211> 252

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(252)
<223> n = A,T,C or G

<400> 1073
aattccgttg ctgtcgagag aagcttttag tcaaaagtca gtttattaaa tgtttagaat 60
acctaaacag gaagaaaatt ctattgtttt ttataacaaa gtggaagatt tcaagaaagg 120
acaactcact gtacacttga gaataatacc tacagaggtt catactgaag agtagtctca 180
ataatgtaaa gaatttgaca agcatgatgc tattgaaata gttctgtcng aagnggtgtt 240
nnttcttcnt tt 252

<210> 1074
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1074
aattccgttg ctgtcggctc ttgctgctgc tcaggtagaa catctgggag gtcccttgct 60
gaccactgga agaagatgag ctcgagctat tggagtgaga cgagcagcag cagctgtgga 120
acccagcagc tcccagaggt gctgcagtgc cagccccagc attaccactg ctaccatcag 180
tcaagccaag cccagcagcc tccagaaaaa aatgtagtgt atgagcgagt gaggacctac 240
agtgggccca tgaacaaggt ggtgcaggcc ttggacccct tcaactcacg ggaagtgctc 300

<210> 1075
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1075
aattccgttg ctgtcggaaa gagcaaaaat ccagcaacaa ttggccaaaa tacataataa 60
tgtaaagaaa cttcagcatc aattaaaaga tgtgaagcct acacctgatt ttgttgagaa 120
gctcagagaa atgatggaag aaattgaaaa tgcaattaac acttttaaag aagagcagag 180
atatgaagag ctaattaaag aagagaagac aactaataat gagttgagtg ccatatcaag 240
aaaaattgac acatgggctt tgggtaattc agaaacagag aaagctttca gagcaatctc 300

<210> 1076
<211> 291
<212> DNA
<213> Homo sapiens

<400> 1076
aattccgttg ctgtcgaagg atataagttt ataatactgc tatttttgat tcccttgcct 60
aagaaaaatt aggtatgaat aaaaatttaa tttgaactga tatcacttcc cttaccattc 120
acatgttaac taattgataa gataaaaatg tgttgtagta gaatagacta gatcgtatgc 180
ctttttagat gaaaattata gaagatattt agtcatagta actacaaagg caaaataaat 240
atcacagcaa aaccagtaat aggaatgctt gcagactttt tttttttttg g 291

<210> 1077
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1077
aattccgttg ctgtcgggaa gataggcaat gccatttttt tcaaatgtac acatacacac 60
acacaataag aaatgtattt aataatacat tttaccttat tttcaaggct tatcatgaca 120
gtaactattc tttaaataat aagaaggagg aaggtaatat tatgaattac taccaccaac 180
agaaaataat gctgttgatt acccattaaa atggtacagt agtatcattg tctgttggac 240
atatagatca gttttttct tctaaatgct atttcaactc tctattatta acatatatat 300

<210> 1078
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1078
aatgggtatt gtcttagtct gtttgtgcta ctgtaaaaaa tatctgagac cgggtaattt 60
ataaagagta aatttctttt tcacagttct ggaggatggg aggttcacga tcaagatgct 120
gccaggttcg gtgtctggtc agggccaggc ttctgcttcc aggatggcac cttgcatgct 180
gtctgttcac atggtggaag ggcaaaaagg gggcctagct tgctttctgc aggcctctta 240
taagagcact caaccatttg tgatggcaga gcctgtgtgg cctcatcacc ttccaaagcc 300

<210> 1079
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1079
aattccgttg ctgtcggaaa ctccctggag cgacgcagcg tccggatgaa gcggccttcc 60
tcggtcaagt cgctgcgctc cgagcgtctg atccgtacct cgctggacct ggagttagac 120
ctgcaggcga caagaacctg gcacagccaa ttgacccagg agatctcggt gctgaaggag 180
ctcaaggagc agctggaaca agccaagagc cacggggaga aggagctgcc acagtggttg 240
cgtgaggacg agcgtttccg cctgctgctg aggatgctgg agaagcggca gatggaccga 300

<210> 1080
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1080
aattccgttg ctgtcggtaa acttaaggca taaacttctg aaaattagtt atgtataatt 60
ttattcaatc taatgtacat tttaaatatg gataattgat agtttttctc acaaataaaa 120
atgtactata tatttagtta cataaatact gttcattaac tttgaattga gaaaatggat 180
accatttgca ttgctattgt ggctttaatt ctgtgggttc agatggctat taaaattaca 240
tcttttaatt gtgtttattt ttaaagttga aaagtgatca ttatcctcct gttcattttg 300

<210> 1081
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1081
aattccgttg ctgtcgggat tattatgcta ctttattaat gtttattgtt attctttaga 60
aagtaaatta ttgtaggctt ataaaattaa gaaatctagt ttttagtaac ataatcattt 120
gctcccttta aattttaaat cactctaaat ctgaacataa tagctaactt aaaataagta 180
gcatttggat tacattattt ttgcagataa ctgattatct gtgtgaaatg atttagtatt 240
ataaatgttt tgtgataaag tttatggtaa agattgatta tagttacctc atttttatct 300

<210> 1082

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1082
aattccgttg ctgtcgctgg aattttcttt actcctgtat ctgatgtctg ggctgcgatg 60
actcaaaggc tgatttcagc tgagactgta gaccacgtgc ctacttgtgg cctccccttt 120
tgccttgggt ttctcacaga atgtggctgg ttctggagaa tgagacttcc aatgaaatca 180
ggtggaaatg acatctcgcc gctttcagca tgctctattg gttggaacag ttatggactt 240
agctagattc aaaggaaggg aacaaagacc ccctcctctc agagagtggg gcataatgag 300

<210> 1083
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1083
aattccgttg ctgtcgggac aaaaccacag caagctgtca ggtttctgag tgaactgctt 60
acttttccat aattgataga taatacagcc atgtctttaa gagaactctt acagagttta 120
ttattatata tggcaatatt aatagagaaa aatatttcat gtgattttta gagaacttaa 180
gcatttgcct taaatgtttc ttaagcccta gaaatatagc tataatttca ttatttatcc 240
tctcttaaac agatgattcc ctggtaaaga gaagaaaaac actgtataaa gtacagctgt 300

<210> 1084
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1084
aattccgttg ctgtcggaaa gaaatcattt aaatgtacta tatgtggcac aggctgtatc 60
gagacctacc aaatcactag acatcgaaac attcatcttt ggtgaaacca cacaaatgga 120
ttgtgtgtgc caaggccaac aagtcaaaat atgttgaacc taatgatatg atgtgtataa 180
agggtgcaag gacacgtgga aatgatctgt aatattcggg ttattaaaaa tgtaattggc 240
tgggcgcagt ggctcacacc tgtaatccta gcactttggg aggttgaggc aggtggatca 300

<210> 1085
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 1085
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gagaggcagc aaaacaggaa cttgaacgac aacgtcgctt agaatgggag agaattcggc 120
gacaggagct tctcaatcaa aagaatagag aacaagaaga aattgtcagg ttaaactcta 180
aaaagaagaa tcttcatctt gagttggaag cactgaatgg caaacatcag cagatctcag 240
gcagacttca ggatgtccga ctcaaaaagc aaactcanaa gactgactgg aag 293

<210> 1086
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1086
aattccgttg ctgtcggcca actgttttat gtacttgaga agcaggtgtt aacttcctca 60
gttacaaatg agaaaaccca ggcttaaggg gattgactca tttgccaata gtcatgcagt 120
taattgcgtt tgttttgcca cacagccact gttctttaca tagcaatttg gtatatagag 180
aaaatatggt gccatggtca agggcacgac tttgaggatg gactgtctgg cttcaaaaat 240
ctgatttcca tcccttactt attatgtaac tttggccaaa ttactgaatg tcttaacccc 300

<210> 1087
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1087
aattccgttg ctgtcgcaga gacttgctga aggattaaaa ggattttctc ttttggaaaa 60
gcttgactga tttcacactt atctatagta tgctttttgt ggtgtcctgc tgaatttaaa 120
tatttatgtg tttttcctgt taggttgatt ttttttggaa tcaatatgca atgttaaaca 180
ctttttaat gtaatcattt gcattggtta ggaattcaga attccgccgg ctctattact 240
ggtcaagtac atcttttctc ttaaaattat ttagcctcca ttattacaaa aaattataaa 300

<210> 1088
<211> 282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

<400> 1088
aattccgttg ctgtcggctg gagtaaaccg tgatcgagtt actgcactcc agcctgggtg 60
acaagagtga gactctgtct ccaaaaaaaa aaaaancngn atngccnggn tttactcngg 120
ncncannntg cagnccnagt tntgcngctn tgctgttngt tcngntttcn tccannnatn 180
ggcntcaccn tttggnncca aaanggctgn tgcnttccag gcttnanntc canactcaaa 240
cccanaaaan ctgcccatcc ntacctgggn gacccttgt ag 282

<210> 1089
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1089
aattccgttg ctgtcgcttc tctgccccta aatttggata tccatttcga gatttagaat 60
ccaaacgctt ttattggaga accattaaat taagaataaa gttctaaatc agtttctcca 120
attagttcta ttatattcta tagtatatat actgtaattt tgcatcccca cgtgtgtcct 180
aataaagata cctatagctg aacagtttgt agcatggaat aaataaaaac caaatgattc 240
gtgttataaa atactaacat cctttgtaaa aacacaaaaa tcttgtacct atatatatat 300

<210> 1090
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1090
aattccgttg ctgtcgcttc aaacctaaaa atcaagttat ttccttttat aatacttttc 60
ttccccatgg aacaaatggg atcaatttgt gagtttttc ctttaatgat aactaaaatc 120

cctctaattt ctcatttatg cttttgtctt ttttatgaaa tatttctttt aaaagcccca 180
ggcttcacct acgaaatatg aagagcaaaa gctgattttg cttacttgct aaactgttgg 240
gaaagctctg tagagcatgg ttccagtgag gccaagattg aaatttgata ctaaaaaggc 300

<210> 1091
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1091
aattccgttg ctgtcggatg cctgctctaa gctgcaggag cagaagaagt cactcaccaa 60
ggagaaggag gagctggagc tgctgaagga ggatgtgcag gactacagcg aggacttgca 120
ggagatcaag aaggaacttt caaagactgg tgaagaaaaa tacgtggaag aatctaaagc 180
cagcaagaga ttgacaaaaa gggtgcagca aatgatcggg cagatcgatg gcttgatctc 240
gcagctggag atggaccagc aggctggcaa gctggccccg gccaacggca tgcccacggg 300

<210> 1092
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1092
aattccgttg ctgtcgggtt tttaagaagt cgttaaactt aatatttact agatatttgt 60
ttttggatgg catctaatat attaatagcc cagaaaaaag gcgccactaa tgaatatgtc 120
ttggattaca tagtgacata tattagcttt tcgtccacat ttgataacat tgctaatatt 180
ttcttttttt ttactgaagc tctttgaatt taaagttttc tctcatttaa atttattaat 240
taaaaacata cctttactct gttcccttta gcatttcaac ctgatgttaa aagatgtgta 300

<210> 1093
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1093
aattccgttg ctgtcgcatt aaagtcacta agaataacca ttttttccag tatatatgga 60
atatacacca aaaaagacct tatcctggac catagataca ttttaacaaa ttcccaaaga 120
tttatatttt cagagactgt ttctgaata ataataataa attagaagta aaaaaaattg 180
gaaaattcct aattatttgg aacttaaaca tcatgtttgt aaatatccct gagtgaaaat 240
aggtctaaca aaaaatctac taaaataagt ctaataaata aatttagaac atattttgaa 300

<210> 1094
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1094
ggcacaattt gaagcccaac ctcagattct aagtcccata tattagtttt tggtaacaat 60
catcagtaaa ggagaatatt ttaaaaacct ataaaggagt ccttgacaat actatctaaa 120
tctttttata cattgataat tttataatat accctgtata tattaggtaa atgcctgtag 180
gtctccaaag acctagaatt gagaatcaga gggtaaacat ccaaacaaat cccctagatg 240
tgggaaaata aggaagttat cttatttcgt cgtcatttat attgaggtga atcatgatgg 300

<210> 1095
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1095
aattccgttg ctgtcgcaca gctcttggtc tccagacctg atgaggaaaa tataagttcc 60
tatttacagc tcatagacaa gtgtctaatt catgaggcat ttacagagac acagaaaaaa 120
agattgttgt catggaaaca gcaggtgcag aagctctttc ggtctttccc tcggaaaacc 180
cttctagaca tatcaggata tcgacagcaa agaaatcgag gctttgggca atccaactcc 240
ctccccgacgg ctggctctgt gggcggtggc atgggcagac ggaacccgcg ccagtaccag 300

<210> 1096
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1096
aattccgttg ctgtcgggaa attcagttac ataaataaat tacccaagtt acatacctat 60
atactgatag atttcaagtc atgttccaga aatcatgttt ctaactagta tgctacactg 120
cctgtctcga aaaaaaaaaa atagtaacta tgctctacac tacgcagtcc acttactatc 180
ccagttcctt attctccttt gctgcaaaat gtcttgaaag agttatttat gcctgctgtc 240
tgcagttaag ccatttcagg gggatggagg gcgcacaacc ttatttgaag tgggttgagg 300

<210> 1097
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1097
aattccgttg ctgtcgcaca gtttaaaaaa gaaattagtt tctcctaatg tgcacattaa 60
aagtagtaaa aatggccaat tttgttaaat cttgatcctt gagtacattt ttgtgtgtgt 120
gcatttttttc cttgtaaaaa taatccatgg gagggcatgg tggctcatgc ctgtaatccc 180
agcactttgg gaggccgagg gaggtgggtg gatcacctga ggtcaggagt ttgagaccag 240
cctagccaac atggtggaac cccgtctcta ctaaaaatac aaaaattagc cggcagtggt 300

<210> 1098
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 1098
aattccgttg ctgtcgcttc ccttccttcc ccttccatct ttctttccac atgtcctttc 60
cttattggct cttttacctc ctacttttct cactccctat cagggatatt ttgggggggg 120
atggtaaagg gaanccncnn canannccct ggaactnngt tntnncngnc tcncncaann 180
ggnnccntng cnacccnngt acntcnaccc tannaanncn ntacagtnga aancaacccn 240
nnccncnnan ccncccnncn cncnncnana 270

<210> 1099
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1099
aattccgttg ctgtcgctca ttccaaggct atgcatatgg atgtcacatt cccatgtcaa 60
tcatctctgg aaggtattat tcgcccagtt ttttaagcat gggaaactga ggcttagagt 120

cttaaaaaat aagtagctgg cagtctctca gcaaataatg atggtgctgc actacagacc 180
cagatctgtg actccaaagt cagcctttgt tcttttcttc ttgttacttt taattggaaa 240
aaaatttaaa ttgcaaaaag ttgtagagtg ataaaaacaa aaatccacga atgctcttct 300

<210> 1100
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1100
aattccgttg ctgtcgcaga ataagcctat caaacatagg tcaaatggtt aaataaagaa 60
tgaaagcgta aaagccatag aagaattttt ctgttgtctt ggagtagaga gaccttccta 120
agtttgacac aaatcccaga agctataaca taaaagactg atacatttga caacatcaaa 180
atgagatcca cttcataaga gtaacactgt aaacaaagtc aaaagataca tgataatctg 240
agaaaaataa tttggaaaaa atatgataaa aggagttaat tttcttaata tactaagagc 300

<210> 1101
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1101
aattccgttg ctgtcgtcct cctttatgag aaaagaatag accctgatag atgaagctat 60
aaagttctat aacatatctt cattgaacgt gtgatttttt ttaaagtata aatagcatat 120
tcatattttt gcaaattgct tgttttcagt acgcagcgtt ttgagagctg tgtatgttaa 180
tgcagttgac tcccgaacag tgggtttgaa ttgctcaggc ccacttatac ctagctttta 240
ttcaaccaaa cacataatgg ccagcatata tgaggagcta acttttcata tgtgtggtct 300

<210> 1102
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1102
aattccgttg ctgtcgcaca aaacaaacaa aaacccctga ttcctggaga tcctgattcc 60
ataggtgtgg tctctgcaag caattttatc tggaattgaa gaccactggt gttctgggac 120
aaaggttttg aaacagacag gggtccaaat tctggctcta ccacttattg aggtgtataa 180
atttgaggaa gttactaaat gctctgaact tcagtttctc ctggaaaatg ggataattat 240
gtctagcttg tgtggctatt gttaggatga aatgagatac aagtatgtag agtacctagc 300

<210> 1103
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1103
aattccgttg ctgtcgcttg tttgcaatag ctatcttccc actctcactt gaacccactc 60
caaccaggcc tccccatctc catgaacctg atcttgtcag agtcacaagg acctccacga 120
tctccacatt gctaaccaaa tggtcaatgt tcagtcttca tcttattcag ctcatcagca 180
gtccataact tcctcttcct tgatgcatat tcttcaccta gcttccaaaa cctatacttc 240
tcctggcttt tctctgcctt accagtaatg ccttactggt ctcgttgctg gctccttctc 300

<210> 1104
<211> 282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

<400> 1104
aattccgttg ctgtcgcata ccagctccta agccctatta agaagaggcc tggtcctcta 60
atgccttggt tccatttcag ttgttctttg agagacagaa tgatgtacta accattcgtg 120
attattagag atagggatgg gtcagggctn agntanntgn cngncttntt gtggntgggt 180
ggnncnttga ncnnatctna gngctgtntg tgnnngtacn nnntnggtgg ttaatntatc 240
catgctgcna nggctgtcan ggantngnta agcgaatttc ta 282

<210> 1105
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1105
aattccgttg ctgtcgctca gggcacagca ggcagtgtgt tagccttggt ctcccttgcc 60
ctccaagtcc cacagggcaa tactggcagg cccaggaaag tgttacacac tgcaggtttg 120
catgacggct aaggaaccac aatcttaggg agatactatc tctgtcttct aaggccattt 180
gctgtacaaa aatccttgaa atacctgggc acagtggcac acctataatc ctagcacttt 240
gggaggctga ggcaggcgga tcacctgagg ttgggagttc cagaccagcc tgaccaacat 300

<210> 1106
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1106
cctaacttcg aaacccgcta cttgttcttt ttgcaggatc ccatcgactg ggagcccggc 60
tcactcccgg aggcctctgc ctgcggctga cctgatcccc aagggactgt cctttcctct 120
cctaccccac cccactccca gacagagcag aagtattttt ataagcagag aatttttttat 180
gtcttaccag atagagttgc agggaagggg gggcctgctg gggagtgggg tttgggggc 240
cctctcccag gacactgcct cttctgggca gaaggcccct ccagggggac tgctccaaca 300

<210> 1107
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1107
aattccgttg ctgtcggtcg attcatatct gtaggattaa taaatgggtc tgttatatcc 60
gttttactga tggtgaaatg aaggaccaga gagagtaagt ggcctttcca aggcttcaca 120
gcaagcttgt ggaagaaacc accaagaaac cagctcttga gacttccagc atttgttcca 180
gttcctctgc aagggaaacc cccattccct gctctctctt tttcccctcc tcacaggcag 240
caggtatgtg cacagacagg cctggagctg ggctagggta ggagtcccct gtgaggctcc 300

<210> 1108
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1108
aattccgttg ctgtcggaag gagagttaaa agtcaataag cattacaaaa attgccattt 60
tgacatcagc aaatcaaatt tctctatcta attaaaggaa aacccttttct cttatttctc 120

ttctcttttc ctcttctctt cctcctcctc tatttcccct ctccttatcc ccttgtctcc 180
ctcttctgct ctttctctac ttcctctttc tcttttttg atatatttct atcatatatt 240
ttcagaaata attcagtggc atctcatgta gatgtaccac tttcttattg caactcagag 300

<210> 1109
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1109
aattccgttg ctgtcgcaac ccttactcct ccggccaagg agccaatgtg agcattcagc 60
tggcagctaa gaatgtgtat cccaataaac agggcagacc tacagaccca ctggacccac 120
tagagatgga cttgggccac agtgccttcc atgacttcag taaacagagg ggtgtggtga 180
tcttgtcaaa gtcctggcgt caatgtcagt gtccggctac acaccatgtt cccgtcctcg 240
aaaagcctct ctgtacccct ctatgttggt gacacaaccc tggcaaatgg ccacagactc 300

<210> 1110
<211> 292
<212> DNA
<213> Homo sapiens

<400> 1110
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ctgtgaaatg gacaggtggg aaaacagcta cctgctggcc tgcccaggca cccgccacgg 120
gcccacgctg ctcagcttct caatgtgaga ctgtccacac ctgcgaggtg tgctaaaggt 180
gcaggttagg tggactgacc ccaggacctc cctgaccccc aaccaggcca gcggaagcct 240
gccacctcct atgtgcggac cacacccagc attggcctag ggggcggatt gt 292

<210> 1111
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1111
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ttttgctagc aaaatgctgt aagatttata ccattgatct tttttgctat atttgtatac 120
agtacagtaa gcacaattgg cactgtacat ctaaaaatat tacagtagaa tctgagtgta 180
atatgtgtaa ccaaaatgag aaagaataca agaaatgttt ctggagctag ttatgtctca 240
caattttgta gaatcttaca gcatctttga taaacttctc agtgaaaatg ttggctaggc 300

<210> 1112
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1112
aattccgttg ctgtcgtaca aaaaaaattt taattagctg ggtgtggtgg cacatgccta 60
tggtcccagc tacttgggag gctgaggtgg gaggatcact ggagcccgaa agttcaagcc 120
cacagtgatc catgattgca ccactgccct ccaggcctgg gcaacagagt gagaccctgt 180
ctctaaaaaa gaagaaatga ttgaaatcat atttttcagg ctggacttcc aataaagtag 240
cccttaaaag gatcattctt aaaatattag ccatatacaa tggtcataat aaatgtatgt 300

<210> 1113
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1113
aattccgttg ctgtcgcata tcagtaaaga agtaaacaag aataaaatac atgctaaaat 60
gtcatacact ctttttgttc taacattttg atttggcaga gccaataccc acctatacta 120
caactttctt atgccagcac aagaatgcta tattcaaaat gctttccatg tattaccttc 180
ttttatcctc agatatcctt ggcagatagt agggcagata ttaccctcat cttattgaag 240
aatattctgg gtataaggaa gtcaaataac ttgtcaacag ttacaaggtt atgaggtaaa 300

<210> 1114
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1114
accattgaat acccgctact tgttcttttt gcaggatccc atcgatctga aagcgggcag 60
cactgtcatt catagccaaa cagtcctatt gagaggtctt ggactatcag gccagctgtc 120
agaccactcc atgcactggg tgtgctctgt tggtcaggga ctgggaggga aactacctct 180
ccttccctta accaagcatg aattatgttt gttagcaaac ctctctggga atatatgtca 240
agccacattc ctcctggggc agctgcaact tcagggcttc acaataaaca gttctgaaaa 300

<210> 1115
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1115
ggcacacatg gcccaccatg cagggccaca caaagaagca ccggggttgg tcaggaggcc 60
gagggaacct ttattgtcga ttccaagaga aagaatgggt gagagagagt agtatgaata 120
agtgtagtgg gatctgggag ggaggagctg tccctaatta tctggtgtct gcccggggat 180
tggttaagtc aggggacagg gaccaggaca tgagagcctg aaggacctgg ttggggtgtg 240
agctttaggt gcgttgcttt gcatacgaaa ggtacctgga agatgagttg tttgtcctct 300

<210> 1116
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 1116
catgccgatg ctgtccatgg gtgccaagca agccagtttt ttggttccct gagggaaact 60
gaccctcctc tcttgtggca ccatccagcc tcagggtctt ggagacttga gtaagaatgt 120
gagtggaggg ggagngnatn tcttaagggg gnggacccca anncccctgag gaacatgcnc 180
ttngnnaaga agncaanann nagggccttn anangangca tgcnanantg ccnaggtcat 240
gantgcnant gccgangtat gangnacntt ntnanacnnt gnnaggaggc a 291

<210> 1117
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1117
actctagaat acaagctact tgttcttttt gcaggatccc atcgacagat cctggtaccc 60
cctgcccgcg ccgatataat gctttttcgc ccccctggga cctcggactt gggcttccct 120

ttggacatga ccaacggggc agccttggca gccaacagca atggcatcgc cggcagcatg 180
cagccagagg aggaggcagc tcgggcggct ggtgcagcca ttgcaggcca agcctctttg 240
cctgtgttac ctggggtgga ccgcttgccc atggtggctg gaccctatcc ccccaactgc 300

<210> 1118
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1118
aattccgttg ctgtcggtca ttcgcaccaa gcaatacctc tatgtggctg acctggcacg 60
gaaggacaag cgtgttctgc ggaaaaagta ccagatctac ttctggaaca ttgccaccat 120
tgctgtcttc tatgcccttc ctgtggtgca gctggtgatc acctaccaga cggtggtgaa 180
tgtcacaggg aatcaggaca tctgctacta caacttcctc tgcgcccacc cactgggcaa 240
tctcagcgcc ttcaacaaca tcctcagcaa cctggggtac atcctgctgg ggctgctttt 300

<210> 1119
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 1119
aattccgttg ctgtcgttca attgttctct cttcaagttc actgattctt tttttcttcc 60
tgtctagatc tgcctttcag tctctctagt ggatttttaa tttcatttat tgtacttttc 120
ggcttcagaa ttttgtgtg tatcctttta ggttttcatt ctctgtgttt ctcttactct 180
gttgcttttt tttttttttt ttgggggccn nnnttngngg nnaaggngga ncnaaancnc 240
ngggnnnaaa nnanncnncc nnnccaantt ncnggggaac ngggancnga attggcc 297

<210> 1120
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1120
aattccgttg ctgtcgcctt gaatatgtaa aaatacctat catatcagtg taatactatc 60
ttaacaatcc taaaaaccag gaaagaaaag caaaatacag ccaaatcaat gtcaagaatt 120
cttgggaagg ctgggtgcag tggctcctgc ctgtattctc agcattctgg gattacactt 180
gagtccagga gtttgagacc agcgtgggca acatggcaaa acctcatctc tacaaaaggt 240
acaagaaatt agcaggcatg gcggcgcgtg cctgtagttc cagctatttg ggaggctgag 300

<210> 1121
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1121
gtggttctgg aagaggacct ggacattgct gtggattttt tcagtttcct gagccaatcc 60
atccacctac tggaggagga tgacagcctg tactgcatct ctgcctggaa tgaccagggg 120
tatgaacaca cggctgagga cccagcacta ctgtaccgtg tggagaccat gcctgggctg 180
ggctgggtgc tcaggaggtc cttgtacaag gaggagcttg agcccaagtg gcctacaccg 240
gaaaagctct gggattggga catgtggatg cggatgcctg aacaacgccg gggccgagag 300

<210> 1122
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1122
aattccgttg ctgtcggcca ctgcgcacgg cctggggagg ttttatttct tgacaaaggt 60
atttgatact cgtgcagtcc ctggagggtc tcactggaga gacaacattt aggctgagat 120
ctgattaaca ggaggcagct gcagtgcaga ggtcaaaagg gagggtgttc caggcagaga 180
aaacagcctg tgcaaaggcc ctgaggcaga aacaaactct acttgaggtc agcctggtta 240
gaaagcccaa ctcaaaatag aaagtattac atgataaggt ctgaggcagg ctggacccag 300

<210> 1123
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 1123
aattccgttg ctgtcgatgt gttccctaca aatctcatgt tgaaacgtaa tccccagtgt 60
tgttggaggt gaggcctggt gggaggtgat tggctcatgg gggcatatcc ctcataaatg 120
gcttggcgct gtccttgcaa taatgagtgc attttcactc tatgagttca catggatttg 180
gctgcttaaa agtgtatgga tttcttacct gctgttgctc tcaccntgcg atgcnnntag 240
ttcccncttt gccttctgcc ttgngtaaaa actccttgag gcc 283

<210> 1124
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1124
gtgagagaat tgtggagacc aactaccaca tatcattgag cccagctctt gggagcattg 60
agatgtatag ctcagggtta cacagttcca aatcttggga aggggctttt cagacagact 120
gtttgctttc tgctgagata aggaatgcat cactctgcca gagtatgact ttttacaatg 180
agacatatgc agctttattt aataatctgc atatgtctca ttgtaaaaga tgaanntgan 240
nnanacatgn aacaaacann gaaaanatnn gnnnncngtn aaangttaac ggaccatgca 300

<210> 1125
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1125
aattccgttg ctgtcgctga cttgcttgag agttctgtca gacttttctt tttaaaaatt 60
taacatgatt gcttttctca attttggaga agatgtttaa atagttctgt tgtaactttt 120
aatagttttg tgtatcattc aacttttttt cttgcagcac cgaggcacat ttgaaaagat 180
ggaacngaag tcnngntggt taccgctggg ngaatataan nagcantttc agctgtgcgg 240
taatggcnna ntnngnnnct tanctctgcg nngtctngct ctagagatac nacttttgac 300

<210> 1126
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1126
aagttgtggc aaaggaaact atacttttca tttttaaaaa tgtaaataga aaagttttta 60
acgggcatat nggncaaaag natacgtttt aacgattttt aangatcaaa atgtggcacn 120
gctggtacnt tttatcttgc tgactgcncn catatttntn nagcannctt nctgtncnna 180
gnatgacttn accggctctn taactangat atacttcngg ggggwnaaag ctgtgatact 240
atagctaata aatncccact anagngacac tgaagattta aacacaagca ttcataagat 300

<210> 1127
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1127
aattccgttg ctgtcgagcc caggtcccag cggaatgggc ctctctgttc agtaggatcc 60
ccctcctgct gagtggttca tggcatgttt ctgttcaacg cttttccatc tgtaggattc 120
ttattctgta tttatttgtt tttttgggtt tttttatttt ttgagatgga gtctcgctct 180
gtcgcccagg ctggagtgca gtggcacgac cccagctcgc tgcagcctct gcctcccagg 240
acgagggaga tcctcccacc tcagccttcc acgtagctgg gactacaggc atgcaccaca 300

<210> 1128
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1128
gccctgtttg cctataagat gtcatcggtg cagatgatgt ttggggtcaa tttcttctcc 60
tgcctcttca cagtgggctc actgctagaa cagggggccc tactggaggg aacccgcttc 120
atggggcgac acagtgagtt tgctgcccat gccctgctac tctccatctg ctccgcatgt 180
ggccagctct tcatctttta caccattggg cagtttgggg ctgccgtctt caccatcatc 240
atgaccctcc gccaggcctt tgccatcctt ctttcctgcc ttctctatgg ccacactgtc 300

<210> 1129
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)

<223> n = A,T,C or G

<400> 1129
aattccgttg ctgtcgatga aattcagtat aaaattgaat agaagtaatg ttaatggata 60
atcttgtctt attcctggtc tcagagagga agtttttaaa tatttaatat gacatacatt 120
gtttgattgg gactantcag caaaatcctt tatcagattt attaagctcc ctttgtttnt 180
taatttatta tgttcnttnn atttntgant ntgnatngan tttatcncan atattctgtt 240
aatnannngt tntttncnnn a 261

<210> 1130
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1130
aattccgttg ctgtcgagaa atggaagaac gtgaaaaaag aaagataatt gctgaagaaa 60
agcacaagga atgggttcag aaaaagaatg agcaaaaaag aaaagaaaga gaacaaaaaa 120
ttaataaaga aatggaggaa aaagcagcaa aggaactgga gaaagaatac ttgcaagaaa 180
aagcaaaaga aaaatatcaa gaatggttaa agaaaaaaaa tgctgaagaa tgtgagagga 240
agaagaaaga aaaggaaaaa gaaaaacaac agcaagctga aatacaggag aaaaaggaaa 300

<210> 1131
<211> 256
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G

<400> 1131
aattccgttg ctgtcgagct gcaccatcac tgcgtatccc tgtgactcct accaggatta 60
taggaatggc aagtgtgtca gctgcgggac gtcacaaaaa gagtcctgtc ccgnttctgg 120
nctattatga tncagttgnn aagncngttc agccnnaagt gcctaatgag nnngcnancn 180
cncattaaat gcnttgcgct nnctgcncag ctnagcaagc ngntaacntg acntgccanc 240
tgtatnaatg aancng 256

<210> 1132
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1132
aattccgttg ctgtcgacac attcgggctt tagaaaagga ggaagaagaa gaaaaacaga 60
agagtttgct gagagaaagg agacgacagc gaaaaaatag ggaatctttc cagatatttt 120
tagatgaatt acatgaacat ggacaactgc attctatgtc atcttggatg gaattgtatc 180
caactattag ttctgatatt agattcacta atatgcttgg tcagcctgga tcaactgcac 240
ttgatctttt caagttttat gttgaggatc ttaaagcacg ttatcatgac gagaagaaga 300

<210> 1133
<211> 265
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

<400> 1133
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aattccgttg ctgtcgcaag gtggtacctc tatgaggctg caagaaccac aacgtagata     60
cagtttagat ggtaataccc aagtccttta aaatatttgg aangcccaan aaggatggaa    120
tncanataat nctcanatag tgaananaan cagtnnannn nntncnntan tatatnttnt    180
gnnattcttt ntngcaacnn nttcnctctt tncntnnata gnaaantnnc tatangnttt    240
nngttnntna tannnnntaa tnatt                                          265
```

<210> 1134
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 1134
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aattccgttg ctgtcgcttt gcaacctacc tgaccctggc ttgctgttct ggacccagga     60
ggcatttccc ctggaacctg attctcctga ccgtctttac cctgtccatg gcctacctca    120
ctgggatgct gtccagctac tacaacacca cctccgtgct gctgtgcctg ggcatcacgg    180
ccttgctgct ctcagtcacc gcttcagctt cagaccaagt tcgacttcac ctcctgccag    240
ggcgggcttt tcgggttttt natgnatttt ttctttnang gaattnatct ggc           293
```

<210> 1135
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1135
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ttgaaccccc caatagagct cttgtctttt gtttgaaccc ntgattcgaa ttccgttgct     60
gtcgctagcc acatcaccaa ataagtgaac aaacaacagc gacaaatcct ggagtagaga    120
gtatcgttat ccagagctgc agcagtgtag tacctaaaat gttcagtgca gtaaaaatga    180
gacatgcaaa gaaataggaa catgtgattc atacacagga aaaaagacta gaaattacct    240
tgataaggac cagatgttga tcttagtgaa caatgacttc aaagcagcta ttataagtat    300
```

<210> 1136
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1136
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aattccgttg ctgtcgaaag aagtatgact gttagtactt ctcaggaccc atctttctca     60
ggattaaacc aggtctgaaa ctgtctccta ttccaacctc aatcccaaat tcatgtgctt    120
ttcttttta ttgttttatt ttgatgattt ttgttttgtt ttaattctgg agaatgtaga     180
tcttgctcaa gcacctctta cgttggcatt attcagacat acttggcaaa cataacatta    240
ctaagatatt tctttgtggc ttttgcttaa aacttataaa gtttagaaaa aagctaaatg    300
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<210> 1137
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1137
aattccgttg ctgtcggttt ctccgtgttg cccaggctgg tcttgaactc ctgggctcaa 60
gcaatccgtc cgctttggcc tccgaaagtg ctgggatttt aaaggcgtaa gccactgcac 120
ccggtaactt tgggttcttg aattcccttc ctcctcttct tcctcctccc ctacactcca 180
ttagagaaag ggtcttgctt tgttgcccaa gctggagtgc ggtggttgtt cacaggcatg 240
atgatcactg cagcctgggc tccagtggtc cgcatacctc agcctgccag tagcaatttg 300

<210> 1138
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1138
aattccgttg ctgtcgggga agtccaagat tgaggggcca gatctggcaa gggcttcctt 60
gctgcatcat cacatggcag aaggcatcat atagcaagag agcaggcagg agatggatgg 120
caatgggggc caaacgcgct tttataacaa acccactccc ttcataaagg acagtccatt 180
tatgagggca gagcccccat gacctaaaca tctcccattg ggcccatctc ccatcactgt 240
tgcattggag attaagtttc caatacatga attttgggtg acacactcaa atgatagtat 300

<210> 1139
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 1139
aattccgttg ctgtcgggaa tgaagatgat gacgcctcct tcaaaattaa gactgtggcc 60
caaaagaagg gngaanngaa tgancgcgag agaaanaaag cnagatgaag aanaagcgaa 120
nctgnggaag ctgaaanaac tnagacgagt tagaancngg tnanaaggat cagagtaaac 180
naaaggaatc tcaaaggaaa tttgaagann aaactgtnta atccanagtg actgttgata 240
ctggagtaat tcctgcctct gaananaaag cnnanactcc cacagntgca caa 293

<210> 1140
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1140
aattccgttg ctgtcggctt gaagtatgga aaaactgggc ccagaccaag aatgctgaac 60
tagagaagga tgctcagaac agattggcac ccattgggag gcgccaactg ctgcgattcc 120
aggaagatct catctcctct gctgtggcag agttgaatta tgggctctgt ctaatgacac 180
gggaagctcg aaatggagaa ggtgaaccct atgacccaga tgtgctctac tatattttcc 240
tgtgtattca aaagtatctt tttgaaaatg gaagggtaga tgacattttc tccgatcttt 300

<210> 1141
<211> 291
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 1141
aattccgttg ctgtcggtgg tggcgcgcac ctgtagtccc agctacttgg gagactgagg 60
caggagaatc gcttgaaccc aggaggcaga ggttgtggtg agcggaaatc atgccattgc 120
actccagcct gggtgacaga gcaagattct gtctcaaaat aaatacatac atacatacat 180
acatacattc atacatacat acaactttgt tttttctttt ctttcttttt ttttttttna 240
anggnaaang caccaccant naaaaaaccn ttaccgaaan ggnaaaaaaa a 291

<210> 1142
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1142
aattccgttg ctgtcgggca gtggtttctt agatgttgac accaaaagca cacgtggcaa 60
aagaaaaagc aaagtcaaca ccatcaaaga tgaaagtgtt cgtgcttcag ggaacactat 120
caagaaagtg aaaagacaac ccaagaatgg gatagtattt tgcaaatcac atatctgtta 180
agaatcttgt atctattcta gctataggac tcttacaact taataaaaga gaaaacccac 240
ctgggtgcac tggctcacgc ctgtaatccc agcactttgg gaggccaggc ggacggatca 300

<210> 1143
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1143
aattccgttg ctgtcggcac cttcgtgtcc cactactcga gccacctgaa gcggcacatg 60
cagacacaca gcggagagaa gccgttccgc tgtggccgct gcccctacgc ctcagcccag 120
ctcgtcaacc tgacacgaca tacccgcacc cacactggcg agaagcccta ccgctgtccc 180
cactgcccct ttgcctgcag cagcctgggc aacctgaggc ggcatcagcg tacccacgca 240
gggccccca ctcctcccac tactcgagcc acctgaagcg gcacatgcag acacacagcg 300

<210> 1144
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)
<223> n = A,T,C or G

<400> 1144
aattccgttg ctgtcgccag tgagtacctg caaaaatgag ttgtcacaga aattatgatc 60
ctctatttcc tgaacctgga aatgatgttg gtccaaagtg cgtgtgtgta tgtgtgagtg 120
ggtgcgtggn atacatgtgt acntatatgn ataanacnna tnnacnntan atctaacnta 180
tnancncnnc ctnctncntc cccttcncac gnacngccnt ntnnnncctc agnatccncn 240
tcagcctncn ccntnatgca tcncatgccc gctcagttnt tncctccctc 290

<210> 1145

<211> 296
<212> DNA
<213> Homo sapiens

<400> 1145
aattccgttg ctgtcgattg atagaactac tttgaaaaca attcagtggt cttattttg 60
ggtgattttt caaaaaatgt agaattcatt ttgtagtaaa gtagtttatt tttttaatt 120
tcaagtgatg taatttaaaa cctaagttgt gtttcaaaac agcaccaaaa ctgtattgta 180
ttttttttgc tgtaattaac tgtataatgt aaacctaatt attttatcat ggtttaaatt 240
ttttgcatat ttgcttaatc ttatgctgct gattcttcta actgaatttg cagatt 296

<210> 1146
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1146
aattccgttg ctgtcggtga aagtgtacta aaggaagtat accaagcctt taatcccaaa 60
gcagtggtct tacagctggg agctgacaca atagctgggg atcccatgtg ctcctttaac 120
atgactccag tgggaattgg caagtgtctt aagtacatcc ttcaatggca gttggcaaca 180
ctcattttgg gaggaggagg ctataacctt gccaacacgg ctcgatgctg gacatacttg 240
accggggtca tcctagggaa aacactatcc tctgagatcc cagatcatga gtttttcaca 300

<210> 1147
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1147
aattccgttg ctgtcgggga agttaagact tataatcacc catagctttc aaacagaaca 60
cacatagcat ctccaccttc attaccacca tcaccaccac caccacctcc atctccacct 120
gcaaccccag cactaccacc atgaccacca ccaccatcac tgccatcacc atcattacca 180
tcacctccac ctctaccttc aacatcacca tcacaatgac caccaccatc accaccagaa 240
acactgaata aaataatgaa agtgcagcct taggctgggc acggtggctc acacctgtaa 300

<210> 1148
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 1148
aattccgttg ctgtcgatgt tggggctggc aaaacgagtc ggtgcccgtc tgctcctggc 60
ctccacatcg gaggtgtatg gagatcctga agtccaccct caaagtgagg attactgggg 120
ccacgngaat ccaataggac ctnggtcctg ctacgatgaa ggcaaacgtg ttttanannc 180
catgtgctat ncctncttga antttanngc gttnatttnc tannnttttn ttannttttna 240
nntnnnnatn ncanntnnac tnatnnntgn agnatntgtc tttat 285

<210> 1149
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 1149
cggccgcagg aatttttcca gtcaaaagca tattcgaggg actaaaagga catcaagagg 60
gatacttcag tcaaatgata atcagctatg aaaaaatacc ttcttacaga aaaagtaaat 120
ctcttactcc acatcaaaga attcataata cagagaaatc ctatgtttgt aaggaatgtg 180
ggaaggcttg cagtcatggc tcaaaacttg ttcaacatga gagaactcat acagctgaaa 240
aacactttga atgtaaagaa tgtgggaaga nttatttaag 280

<210> 1150
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1150
aattccgttg ctgtcgcaag ttttcacaag aggccgggca tggtggctca cgcctgtaac 60
cccagcactt tggctattgt ttttttgttt ttttaatttc ttgtagatac gaggttttgc 120
tgtgttgccc aggctagtct cgaactaact cttggcctca agtgatcctc ctgcctcggg 180
ctcctgaagt gctggatata cagtcgtgag ccactgtacc tggccagaac tcctcttcta 240
gggggaagtc aaccacaatg taggaagtca gattgtccca agtccactat gctgtaagga 300

<210> 1151
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1151
aattccgttg ctgtcggcag gggcctcccc ggtcgcccca gcaggcccag gcacataggt 60
gcccagagat ccctggcttc tgatcgcccg gaagactaag agctttagtt ttggtccaga 120
aagcattttc aaggagctgg tcaagcatgg ctttagcaga taagagactt gagaacttac 180
agatctacaa agttcttcaa tgtgtgcgga acaaagacaa gaagcagata gagaagctga 240
ccaagcttgg ataccctgaa ctaatcaatt atacagaacc cattaatggg cttagtgctt 300

<210> 1152
<211> 272
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(272)
<223> n = A,T,C or G

<400> 1152
aattccgttg ctgtcggaga tgtggaatga ggctgagaag caactgcaga acagcttgat 60
ggactttgga gaaccgtgga aaatgaaccc aggagatgga gcattttatg gccctaaaat 120
tgacataaaa atcaaggatg ctattggcag ataccatcaa tgtgctacaa ttcagctgga 180
cttccaactg cctattagat ttaatctcac atatgttagt aaggatgggg atgataagaa 240
gagacctgtg atnattcntt canctcattt tt 272

<210> 1153
<211> 262
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 1153
aattccgttg ctgtcggctc cgaggaggaa gaagctaact attggaaaga tctggcgatg 60
acctacaaac agagggcaga aaatacgcaa gaggaactcc gagaattcca ggagggaagc 120
cgagaatatg aagctgaatt ggagacgcag ctgcaacaaa ttgaaaccag gaacagagac 180
ctcctgtccg aaaataaccg ccttcgcatg gagctggaaa ccatcaagga gaagntngaa 240
gagcannctc tgaaggntac cg 262

<210> 1154
<211> 272
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(272)
<223> n = A,T,C or G

<400> 1154
aattccgttg ctgtcggaaa ggttatcaag acacagaact tggcagctct ccttcatgcg 60
attgccagac gtccaaaggg gcagcaacta gcatgggatt ttgtaagaga aaattggacc 120
catcttctga aaaaatttga cttgggctca tatgacataa ggatgatcat ctctggcaca 180
acagctcact tttcttccna ggataanttg cngangtnta tctatttttt tgaaacntct 240
tgaggctcnn ngntnntaat ntnnatattt tt 272

<210> 1155
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A,T,C or G

<400> 1155
gctgcaataa acaagttaac aacaacaatt gcattcattt tatgtttcag gttcaggggg 60
aggtgtggga ggttaacccc nnccccccnc nanccgcctt ncctncncac cnaccctacc 120
acnccntccn cctcctcccc ttctcgnncn ncccccccctc ctccnntatt ccccnccncn 180
tcccttnncc caatcnnccg nacttgncnc ncngccncan nnnctcctcn tccncncncn 240
ntcatctcnt cacccccctn cctctncnct aaccnccccc tctccaat 288

<210> 1156
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)

<223> n = A,T,C or G

<400> 1156
aattccgttg ctgtcgtgcc tccaagatgg tgagtcttct tgcgtggtga gggtgggggt 60
tcgggtgcan antatnatan agtgaccnta tnatacnntg angacnnccn agagactctc 120
acnncancan cagttccagg cnttcaaacc gaanacaatc cannaaaagn ggaacatacn 180
gaanaacntt ctantataac nnaactantn actactnata gaaaatattc ntgactaggt 240
cccncanatc cttctnactt ccnatanaaa nagagagntc ttaaccttta aa 292

<210> 1157
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 1157
aattccgttg ctgtcgggcg ctttcaactg tactgctgca gctttaagta ccttaaagct 60
tctcctgtga acttcttagg gaaatgttag gttcagaact aaagtgtttt gggtgggtcn 120
tatttcttnn aattntctat nnatnncnct ntnanannta aanttaantt annaatctnn 180
cngttnttan ttanaaanatn nantnttntn atctccnngt antatannnt tnntnncata 240
tgtnnatann ntaanntanc ga 262

<210> 1158
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1158
aattccgttg ctgtcggtag gattataaat ggtttaaaat acgtattctc aaacctcatt 60
ttcagcatat aaatttttaa gaatcagtgt ttaaaggtac gtgaaaccat ttgctagatt 120
tttgtcctag tttttttttt ttaatttaaa aannttannt gttttttaga nannttnnaa 180
tgnccntgcc tcactggcna aacgcnttca gngnnggatc nactgtttaa gangatctcc 240
gggaanaagc cctnanantt tganagggac tgnnntnggt gttcnatnct nccccagttt 300

<210> 1159
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1159
aattccgttg ctgtcgcaca cagcccctct gcaaaggttg ggaaacttgc aaggaattta 60
aggaaatctc tgttcagtca ttagccagcc actaaactaa ctgagcagat ccttcagtga 120
tcacacacaa caaagaatac agactttaca gacttagtcc tagaaaatca ctacacaaac 180
agcaacaaca atgcacctgg gactaaggga gaggagatga gttccagagt tggtatatta 240
tttaaatgtc tagttttcaa taaaaacaat tataagacac agagcaaaac tagaaagtat 300

<210> 1160

<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1160
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ctggtgttag ggttctttgt ttttggggtt tggcagagat gtgtttaagt gctgtggcca     60
gaagcggggg gaggtgtggg aggtttaant cnnccacnac catattcnna acnnngtttn    120
anccnnttct tnncacnaan cctatatttg ancccancct ntgnacnngn cntncttgan    180
tcacntnaca tgttanccct ncnaccncct acncatanca ntncnttanc ntnantcncc    240
nttacttnnt ncctnccacc ctgnnncnna ctnncccacn nttcagncct tattctctcc    300
```

<210> 1161
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1161
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aattccgttg ctgtcgataa aatgggaatc ttcttggtat tttatgtgta ttgtaagtag     60
cagttaaatt attttttaa aagcaatttc agttttaatc actgaacaaa agaaacaggc    120
aacattcact tctgtagtat ggtttccacc tatctctaac accactatta aggtacacca    180
gtgttaaggt acattaataa ctacacaaaa ttttatttaa agagaacact tagcagccta    240
tgatagtttt caataaaatg ttgcctctct ttcggattct cactaacttt tggtactatt    300
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<210> 1162
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 1162
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aattccgttg ctgtcgaaga acttcatggg cttcaataat gtctagaaag taaaatgaaa     60
gaggaatgtt accatcccca gctgccctta tttccagaga accagacgtt tggntgnnna    120
gnggatnnan aancgctnnn cntancaggn tactcgatna aggcaaggta aatatngctn    180
cannagtgcc ctctncnttc ncangagtcc ctcnnatnag caccсttatg ntagggnntn    240
nnnntnnnaa cnttccngnt ngaccanann ttnaccnctg nggccgttag g             291
```

<210> 1163
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(284)
<223> n = A,T,C or G

<400> 1163

aattccgttg ctgtcggtta gaccaccatt tacatatgca tctttaatta ggcaggccat 60
tctcgaatct ccagaaaagc agctaacact aaatgagatc tataactggt tcacacgaat 120
gtttgcttac ttccgacgca acgcggccac gtggaagaat gcagtgcgtc ataatcttag 180
tcttcacaag tgttttgtgc gagtagaaaa cgttaaaggg gcagtatgga cngtggntga 240
agtagaattc naattaccan ggtnacanna gatctttggc aacc 284

<210> 1164
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1164
aattccgttg ctgtcggcaa ctgtgacctg gagcgctttg ctcaggtctt ggagaaggaa 60
ctgcccctgt atgcgcgccc catcttcctg cgcctcctgc ctgagctgca caaaacagga 120
acctacaagt tccagaagac agagctacgg aaggagggct ttgacccggc tattgtgaaa 180
gacccgctgt tctatctaga tgcccagaag ggccgctacg tcccgctgga ccaagaggcc 240
tacagccgca tccaggcagg cgaggagaag ctgtgattcc ccccatccct ctgagggccg 300

<210> 1165
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1165
tataagctgc aataaacaag ttaacaacaa caattgcatt cattttatgt ttcaggttca 60
gggggaggtg tgggaggttt tacngacgct aaagaaaacc cntatggcaa gnatgactat 120
aanagnccat tcccnctgca nnccaaaaac taacgcagnt atgccnagaa tgngactgtc 180
tggntcnaac ccagcgnnct gcanacngat gtacngaaga ttttatgaaa tgcatngana 240
ctacctgaaa aatcacagac nttctataag gagctnaacn gtttncgana ggccgtctag 300

<210> 1166
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 1166
aattccgttg ctgtcgtacc ccagtaccag tgaggataca ttgggaatta cttggcaaag 60
tcctggtacc tgggctagct tggttccttt ccaagtgtca tatangacnc nnatnttacc 120
ggccanantc cnatantacg gntngantat nttgtgntgc nganccattt tcacaattac 180
tatgtnatnn antganaatg nttnagtnaa aaantncata nctgnaanac atngaatntn 240
aattgggcca tcatntacga nttganctga antatttagg gnactttata aatt 294

<210> 1167
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

<400> 1167
aatccgttgc tgtcggaaac gctgccagat catcatcttt caggtggtct tcctgggcct 60
cctggctggc ctggtggtcc tcttctacgn ctatcctgtg cgttgcnagn agttgtnnnt 120
tnnctnatgg cnggtattct gtnttntttn nttttttttn ntttnngnag ccnnntgatn 180
atgttttnnt tngttnttnt gnagnntnnn agttttggta ggtttntngt cngnttcnna 240
gntnnattct ntctantgnt 260

<210> 1168
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 1168
aattccgttg ctgtcggaag aagttgaagc agaagtgaaa gcagctgcag agatatcaat 60
gggaacagag gtttcagaag aagatatttg caatattctg catctttgca cccaggtgat 120
tgaaatctct gaatatcgaa cccagctcta tgaatatcta caaaatcgaa tgatggccat 180
tgcacccaat gttacagtca tggttgggga attagttgga gcacggctta ttgctcatgc 240
aggctctctt ttaaatttgg ccaagcntgc agcttctacc gntcagattc ttg 293

<210> 1169
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1169
aattccgttg ctgtcgattt aatatacaac ttggtttaga ataaatatct aacaaatgta 60
taattgaatg gcagagacac tgacacttca tttgataggt cattgctcct gcccagtttg 120
ggactgagaa aataatttga tagttggtcc aatgtgtgat acctatgaaa gaaccgagcc 180
tttaatattt tcatctttat gttacagcca ctgtgtcgaa ctcccagcag gcttaccagg 240
aagcatttga aattagtaag aaagaaatgc agcctacaca cccaattcgt cttggtctgg 300

<210> 1170
<211> 292
<212> DNA
<213> Homo sapiens

<400> 1170
aattccgttg ctgtcgccaa gggctcacta agccagaggc caaagtgccc cctcccgttc 60
acctaccacc caagtcctca tgccctccga gggctggggg aggaggggct caaggaaggg 120
gggttccatg tacatattta tcacccсttt cacatagccc caagaccttt tgtacatttt 180
tacaggggtg cccctcccaa cagttccctt cctggttaat taaccctca gactggtgct 240
gtgttcctag cctctggcct ctctgtgggg aaaggggact gcaaggggaa ga 292

<210> 1171
<211> 263
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

<400> 1171
aattccgttg ctgtcgggca cagtagttta ccctgttatc tgtgtttcat aatgggggct 60
gtatgaatat tatttataac taataaaatg ttgccagaat tatactaaac tgttggatga 120
gattaggaga tcagaggctg gaccttctct tgataatgct tgttttgtta cagntattan 180
gaaatnnttt gtatgtgatt nntttnntnn tcngnatngt tnatgtnnag atnggtnana 240
nnnnctttt nantngctga att 263

<210> 1172
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1172
aattccgttg ctgtcgctct ttctggtgac tctctggatt ttgaaaaaca gactctcctc 60
cctcaatagt gaagtgtcca ccctccggaa cacaaggatg ctggcattta aagcgacagc 120
tcagctgttc atcctgggct gcacgtggtg tctgggcatc ttgcaggtgg gtccggctgc 180
ccgggtcatg gcctacctct tcaccatcat caacagcctg cagggtgtct tcatcttcct 240
ggtgtactgc ctcctcagcc agcaggtccg ggagcaatat gggaaatggt ccaaagggat 300

<210> 1173
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1173
tagatcaagc tacttgttct ttttgcagga tcccatcgag ccggcgcgag tgtgcgtgtg 60
tgtgcgtgtg tgtgtgcgag cgcggtggag ggggggggacc aactgcttca cactttcaac 120
actgcactga agagggagag cgagagagag actggagacg cacagatccc cccaaggtct 180
cccaagccta ccgtccccaca gattattgta cagagcccca aaaatcgaaa cagaggaaac 240
gaacagcagt tgaacatgga cgaaggaatt cctcatttgc aagagagaca gttactggaa 300

<210> 1174
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 1174
aattccgttg ctgtcgttgc acccaaggct gagcctgcca tcatccctgc cacccggaac 60
gagcccatcg ggctgaaggc ctccgacttc ctgcccgcng nganaatncn ccnnnnngcn 120
natctggcnt acaangatga natngacgtg ataggtgnta ncannaacan cataganana 180
aactgnttnt ntgtangnng anngtnntac ntnatccgnt ncatnnaann tngaatncnn 240
atcnnctccn annaggaacc gtcttgagaa gatngcatga nncgaatcct actcttcga 299

<210> 1175

<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 1175
aattccgttg ctgtcggccg cgaggcggca atgccggctt ggggcttgga gcaacgcccg 60
cacgtggcag ggaaacctcg tctctataaa aaaaagaata caaaaattag ttgggcatgg 120
tagtgagcgc ctgtgaggct gcttgtgagg ctgaggtggg aggatccctt tagtccagga 180
gttcaaggct gcagtgagct gtataatgcc actgcagtcc agcctgngtg acagttanac 240
cctgtctncn natctanatt ttntgnaaag nanacnttaa ggntangatg aaat 294

<210> 1176
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1176
gagcattcca tcgtcttcat tagctcttct atcctctgtc ctgtcctcta gcaagacacg 60
ctggatgcag atatccacat agagacggag gatcatggca tgtataagta catgtcttcc 120
cagcacctct tcaagctgtt ggactgtttg caggaatccc attcattctc aaaggccttc 180
aactccaatt acgagcagcg gactgtcctg tggcgagcag gtaaggccac acagcagata 240
agatagatgg ccacactggt caccttccta aaacattaaa gtgcttggaa aatgcccaaa 300

<210> 1177
<211> 282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

<400> 1177
aattccgttg ctgtcggaaa tgtggaagct acctttagga acatggagaa tttccaaacc 60
aacaggcaaa ggaaaactaa cgcacaaaaa tgacattctg aagatgcagg tttcagccag 120
gcgcggtcga gagaanatan aaacggtcaa ttacccnaca tatnctgagg ctgagaaata 180
gtgctnagat ggaaganatg aactncnagt ctctggtcga ccatnctnan ttctnaccnt 240
tnnngncnna ctgtanatga anagggcttt nntcttctgt at 282

<210> 1178
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1178
aattccgttg ctgtcgtcct cttcctggcc cagaagatct tcaatgacaa cagcctcagt 60
atggaggcct tccagcaccg ttctgtgtcc tggtcgcagt tcaacaaggt cattctcctg 120
ccctttggac ctcccacccc caagctcttc atccctgggg cactcagggc ctgctcagcc 180
tccatgcagg gaccttccac tggattctcc acagtgcccc ctcaggtcct ttaggaaggc 240
ctgtcatgga ccagggagga aaaaccccag gcctgggggt tggctctgga gatgcgttct 300

<210> 1179
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1179
atgccccggg ggccctggcc cagaccgccg cccccggtcc gggcaggaag gagctgaaga 60
tcgtgatcgt gggcgacggc ggctgcggca agacctcgct gctcatggtg tacagccagg 120
gctccttccc cgagcactac gccccatcgg tgttcgagaa gtacacggcc agcgtgaccg 180
ttggcagcaa ggaggtgacc ctgaacctct acgacacggc cgggcaagaa gactatgacc 240
ggctgcggcc cctgtcctac cagaacaccc acctcgtgct catctgctat gacgtcatga 300

<210> 1180
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1180
aattccgttg ctgtcggcta agacaatctc agcttttctt agacaatctt ctatctcaaa 60
cttcagacat tccagaattg tcatgatgtt tacactgtct gagttaaaaa tcctgttcaa 120
gaaaaaaaaa agattttgta tcacttctta aaaaggaata ttcatagcac ttgtcacaaa 180
tagaaggcaa ccatgagata atacaagcca gggagaggct tgtattacat gacaggtgta 240
attagtctgc tgagccagct ttacccaatg aagggcatat gtgttagaga gattagctaa 300

<210> 1181
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

<400> 1181
aattccgttg ctgtcggttc tgggccagaa agacttccag tttggagtcg tttgctgcgg 60
ggagggaatg aatgggcgct gggaacacgc ccgcgaggtg gggacgcgcc ggccgtatcn 120
aggncnttag nnngagaacg gccnacngnc atctnnttca tgcnccntnn naacntnact 180
nntagnnnac tttnnnncgt gacttnncct tantgtaaaa tannttntnc nngacncagc 240
cganttcatc canntcttnn ngg 263

<210> 1182
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1182
aattccgttg ctgtcggttg aagcctgggc aggtggtgta caagtgcccc aaatgctgca 60
gcatcaagcc cgaccgagcc caccactgca gtgtttgtaa gcggtgcatt cggaagatgg 120
accaccactg tccctgggtc aacaactgtg taggcgagaa caaccagaag tacttcgtcc 180
tgtttacaat gtacatagct ctcatttcct tgcacgccct catcatggtg ggattccact 240
tcctgcattg ctttgaagaa gattggacaa agtgcagctc cttctctcca cccaccacag 300

<210> 1183
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1183
aattccgttg ctgtcgaaga gacagctata tttgtttcaa tgtgtacctc tccttctaaa 60
ctcagttctt aagcatatag tatctttata gctatacacc tagtgtctat cagaccctaa 120
actatggtag gccctcaata cattttattg ttataggtag atagataggc atgagtaggg 180
caggagaggg ctctccctcc acccactaga aatgtcaagt gatgttttaa aaattgtcac 240
actgcctctc agaaaatgat aattcagcaa ccggggagag aatcttctga tggtccacac 300

<210> 1184
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1184
aattccgttg ctgtcgcctt tccaggtcct tccaactttg ttaatttgtt ctactgcctg 60
ggagattcct ttgactttat ctttttacct ttatattgaa ggttttcagc tgtcatattt 120
ttaatttctg gtagtttttt cttgtctatt ccttaatttt ttctttggag acagggtttc 180
actctgtcac ccaggtttgt gacagcctta ctgcagcctc aacctcctgg gcccaagcaa 240
tcctcccact tcagcctcct gagtggttgg gaccacaggt gcataccacc acacgtggct 300

<210> 1185
<211> 272
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(272)
<223> n = A,T,C or G

<400> 1185
aattccgttg ctgtcgacaa agtcgcagat gcatacaaga ctttttcaag aaacacatac 60
agtacaaatt cttagatgaa gactttgtgt tcgatatata cagagacagt agggggaagg 120
gggggaagnt tcntgnnacn tctttgntna tcctnnnnnn ncatgattta ctactttaan 180
gnggnnttgn tggntantng naccatgnnc attncttnan ngtcnngntt ttcttantaa 240
ntcgnntntt ncntnnactg ncctaanatn nt 272

<210> 1186
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A,T,C or G

<400> 1186
aattccgctg ctgtcgccca aactaaaacc ttatctgtct gcattttgaa tgcattttgg 60
tcaaaagtat acgttttaaa gatttttaaa gataaaaatg tggcncaacn gggttttttt 120
gctnnctgat ntangncccct atcnntaann taatctttct ctccnnancc anantncacc 180
antatggtnn aactannnnt naactnacan tgaannntta attngnnnnt ttcnnnaann 240
ntttcnaatn taaatnncta nngnttncaa ctngctcgnn ngaaattc 288

<210> 1187

<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 1187
aattccgttg ctgtcggctt gggattcttt tatctcctgt ggtggataaa tctgccttaa 60
atatcaatgt aacttggggg ctgggggctt gttttgggtg ccaancncat ctctttangg 120
acagnntaaa tgngattata tctcangnac agttggacct tcagacctaa cnntnaccat 180
tnnccttacc tgtntaantc tgaaatgtaa tanganagat aactgcnaga tgccagctnt 240
cctaatntnc aaagcctttc a 261

<210> 1188
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1188
aattccgttg ctgtcgaaac caaggacaca gtcagcattt aacaaaaagg aatctgcatc 60
tcagtcagaa ctgtattgca tttgcttctc tctggattac cttgaagtta ctccccttcc 120
ccaagcagtg aaacgatgga ccaaaggggt aaatctcttt gaacaagaaa ttattctggt 180
gcctattcat cggaaggtac attggagcct ggtggtgatt gacctaagaa aaaagtgtct 240
taaatatctg gattctatgg gacaaaaggg ccacaggatc tgtgagattc tccttcagta 300

<210> 1189
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1189
aattccgttg ctgtcgcgaa tggtgacccc ctggacggaa gcgcccagaa ggtgccgagt 60
cccgatcccc agcccagcac tcgcggcatc ttcggccttt gccactattt tggtttttat 120
gatttttaac aaggagcgtg aaagcttcag ctgcgcctga gcccacgtgg gcagcgggac 180
ggcatagggg tggcccccat agaagccggg ctgggggtgg cctccgtagg gttgtctggt 240
gtttccacgt ggggtgctaa gaagcaaggc ctggctgggt gcggtggctc ccgcctgtga 300

<210> 1190
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1190
aattccgttg ctgtcgggca aggaaggatt cttctgaagc tttcggagga agcatggccc 60
ggccaacacc ttgatttctg atttctaaac tactcagccc gcctgcaccc aggtgaaata 120
aacagccttg ttgctcacac aaagcctgtt tggtggtctc ttcacatgga cacatgagac 180
acttggtgcc gaagacccag gtcagtgaga ctccttcagg agaccagtcc cctgtcctca 240
ccctcactcc gtgaggaaat ccacctatga ccttgggtcc tcagaccaac cagcccaagg 300

<210> 1191
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1191
aattccgttg ctgtcggttt accagctaca taggataggg cctaacaaag acttactagc 60
acaaagcaag gaggtttcaa ggaagttagt ttataaaaga aactattatt ttttaacact 120
tatgatttat tctttaacaa gaagggaaac tttgaagagg aacttttact ttccacattg 180
aacaaataag taagaaaaag aaagggaaac ttccccaggg ctgaaaggaa attttcaggt 240
catgccatta ttatcagaat taataagacc catgcatcgt ggaaaactga gaacaccacg 300

<210> 1192
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

<400> 1192
aattccgttg ctgtcgccgg agcgcacccg gccggaagcc gctgtcgggg agccggcggt 60
ggggctggac gcaggtgcaa ctgacatggg tgaaccccag ggatccatgc ggattctagt 120
gacagggggc tctgggctgg taggcaaagc catccanaag gtggtnntna atggagttgn 180
actttntgga taggatttnt ntgttagttn cnantnttac tntgntntaa tctttngnan 240
tnttnggann ttttttgttt 260

<210> 1193
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1193
aattccgttg ctgtcgatct caccctggga agatgtggtg ccccctccag ggctctggag 60
gatggatgcc tcccccaggg gctctccaag ctgggcattt gggcctggtg gatgccaacc 120
tggataacct gtggcccagc attgactgtc cacccagcct tgctgttagg caccatgact 180
ccaagatgaa gatgtggtcc ctgcccttga gtgacagccc agggacttaa tgtggccatc 240
gggcatcaag cacaaggcca tgcaggtgat gatacgtcgg aatagaggca ccagccctgg 300

<210> 1194
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1194
aattccgttg ctgtcgggaa gctcgatgtc ccaatattgg agagtgttgg ggaggtggag 60
aatatgccac cgccacagcc acgatcatgt tgatgggtga cacatgtaca agaggttgca 120
gattttgttc tgttaagact gcaagaaatc ctcctccact ggatgccagt gagccctaca 180
atactgcaaa ggcaattgca gagtggggtc tggattatgt tgtcctgaca tctgtggatc 240
gagatgatat gcctgatggg ggagctgaac acattgcaaa gaccgtatca tatttaaagg 300

<210> 1195
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(265)

<223> n = A,T,C or G

<400> 1195
aattccgttg ctgtcggtgg aggttgccgt gagctgagat tgcgtcactg aactccggcc 60
tgggtgacag aaggaggctc tgccttaann ganaaaaaan cntcntggaa ctgttgnang 120
gataaaatna aggattgagg nattgaggna ttgntgacnt gnacntcnag gngtcnnatt 180
tttttaaang ggggggcncg naccgggncc gnntncntnt tntttcnagg caggtgggnn 240
tgngnnaann caanaggnat tccnt 265

<210> 1196
<211> 257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

<400> 1196
aattccgttg ctgtcggtga atgatgatga tgccattgtt gctgcttcga agtgcttgaa 60
aatggtttac tatgcaaatg tagtgggagg ggaagtggac acannttnca ntgannaaga 120
tgntnaagag cccatncctn agaccanctt atntnatacc tnttganctn ttnngatntc 180
atntnangtn tcannatntg ccntnnnctn ngccacnngg cnntatgcnt tntnngncna 240
ttntttntnc ntcatct 257

<210> 1197
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 1197
aattccgttg ctgtcgagat gaccctgctt tcttggtcct gttaagtatc tggctctgtg 60
tgtccactat aggatttggc tttgtgctgg acatgggatt ctttgagaca ataaagcttc 120
tcctttgggt tgcnctnata nattgtgnat gngcntgntc ntntttncgt tnnanaatnt 180
tcctttnnan ancnggncat ntaattnant tnaaaggaat naccctngcc cnnggnttaa 240
naannanttc ttnnanatnn ggaacnttnt cccctttnna atttc 286

<210> 1198
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1198
aattccgttg ctgtcggacc cataggcatg ccagacatgg gcatggggtt catgttcatc 60
tgtcccatgt gaccactgct gccattcatg tgcaccatac tatacactgc aggattcccc 120
tggtgggcaa actgctgctg ggaaaaggag ctgtaagtaa acaaatggta atattacctc 180
tggaagtcac tttagcgaca aagggcatgc ccacagaaat tactacaatt gtgtcaaaca 240
ttgctatact taagctggga atgttagaga aaactccctg acagcctgtg atccattttt 300

<210> 1199

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1199
aattccgttg ctgtcgacca gacagagctt ccagagtgtc aggacatgtg tgacttagcc 60
cagattcaga ctttagtcac aagcaggatc agcatagaca tctagctccc agcatggcaa 120
ttctctgttg tgtctccctg tttgtattgg ctgcaggaaa gctcagagcc aagtctgcga 180
taagctgatc ctaagtgtga acgtgaagtc cccagccctg ctgctgagcc agttgctgcc 240
ctacatggag aacaggaggg gtgctgtcat cctggtctct tccattgcag cttataatcc 300

<210> 1200
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1200
gggcggctcc gggcaggggg gcacgatctt aaggacagtc gctccctgaa cgcggagccg 60
gaggagacga agggaaggtg gagcggacgc cacccgcgca ccgggcaggc gcggagaccg 120
gcgtgggaca gccacctgga gcgcagctgc cagaaagaag gactttgctg ctttgggcca 180
ggatctgaac ttaggtgtaa accattgccc tggcagaggg aacctaccca gtccattgct 240
gcctgctaca agatatgaac agtaatggca catattttgg ttatgagtca ctcagtggac 300

<210> 1201
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1201
aattccgttg ctgtcggcat cagcaggcac tgtcctccct ggagctgctc aacgttctct 60
tcaggacctg caaacatgag aagctgacct tggacctgac ggtgctcctg ggtgtgctgc 120
aggggcaaca gcagagccta cagcaggggg cacactccac cggctccagc cgcctgcacg 180
acctctactg gcaggccatg aaaaccctgg gagtccagcg ccccaagttg gagaagaagg 240
atgccaagga gatccccagt gccacccaga gccccatcag taagaagcgg aagaaaaagg 300

<210> 1202
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1202
aattccgttg ctgtcgatgc tcccaggtct ccagtgtcac ctctcggtac agtgtcctct 60
gggccaggtc cagctgttcc cactcctcct gtgtgaatgc catagccaca tcctcgaagc 120
acacagatgc ctgaaacagg gcacttgtta ctgctcagag accccaggtc ctcatgccct 180
cacggaggta cctgttaagg cctaaatgtt ggtgtccccc cgtaaaattc atacattgga 240
acctaatacc cagtgagata gtgttaagag gtggggtctt tacaaggcaa ttaatgtcct 300

<210> 1203
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 1203
gaaaggcacc agtatgtgtt ttagattgat ttccctgttt cagggaaatc acggacagta 60
gtttcagctc tgatggtata agcaaaacaa ataaaacgtt tataaaagnt gtatctngat 120
acactgnnnt tnnacatgnn ancannttat gnnnnntant ctatgccacc ttnnngtcac 180
ntnttnnann ctctancntt ncancttnct tgntncntnt cctnattcgn nngtgccaag 240
agantntntn cngnagnnac cnttcctttg ccaccttctt gctctgtntn tattacct 298

<210> 1204
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1204
aattccgttg ctgtcgagca cattgaccac cacattcagg gccaggggct cagtgggcaa 60
gggctctgtg cccgtgccct gtacgactac caggcagccg acgacacaga gatctccttt 120
gaccccgaga acctcatcac gggcatcgag gtgatcgacg aaggctggtg gcgtggctat 180
gggccggatg gccattttgg catgttccct gccaactacg tggagctcat tgagtgaggc 240
tgagggcaca tcttgccttc ccctctcaga catggcttcc ttattgctgg aagaggaggc 300

<210> 1205
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 1205
aattccgttg ctgtcggcag gttggtgtca aaggaaatcc ccaaggcttc aaccagggtc 60
tggattgtga tgtgatcgta gctgaggtat gtgcttctca ggcctgcaaa gcttccacat 120
ttttgttgan atnanttatt catgnngact tgtatcnnnc tcnnnacnnt tnnntcnctn 180
naanctgnnt annnctatnn tnancttcgn aactnatctt gattacntnt tctncatcnt 240
annnttnatt tnantaannn ntgntga 267

<210> 1206
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1206
gccacgggat cctcagcggc ttcaacaaga cggttctgcg gacgctcccg cggagcggaa 60
acctcattgt ggtggagagc gtgctcatgg cagtggcctt cctggccatg ctgctggtgc 120
tgggtttgtg cggagccgct taccggccca cggaggagat cgatctgcgc agcgtgggct 180
ggggcaacat cttccagctg cccttcaagc acgtgcgtga ctaccgcctg cgccacctcg 240
tgcctttctt tatctacagc ggcttcgagg tgctctttgc ctgcactggt atcgccttgg 300

<210> 1207
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)

<223> n = A,T,C or G

<400> 1207
gtagagaaca acctgctgca tctggaagac ttatgtgggc agtgtgaatt agaaagatgc 60
aaacatatgc agtcccagca actggagaat tacaagaaaa ataagaggaa ggaacttgaa 120
accttcaaag ctgaactaga tgcagagcac gcccagaagg tcctggaaat ggagcacacc 180
cagcaaatga agctgaagga gcggcagaag ttttttgagg aagccttccn ccnggacctg 240
gacctgtanc tgttcnntgg gtacntnctg aannttgngt gtnntnagct cctt 294

<210> 1208
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1208
aattccgttg ctgtcgctgg tgatgagatc gggaaagtgg gctcaggagg tctggatctg 60
tgatgagatg gggaaagtgg gctcaagagg tctggatctg tggtgagatg ggggaagtgg 120
gctcaggagg tctggatctg tgatgagatg gggaaagtgg gctcaggagg tctggatctg 180
tgatgagatg gggaaagtgg gctcaggagg tctggatctg tgatgagatg ggggaagtgg 240
gctcaggagg tctggatctg tgatgagatg ggggaagtgg gctcaggagg tctggatctg 300

<210> 1209
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 1209
aattccgttg ctgtcgcagc cttatcattg gttatgccag aaacccttcg ctgaagcagc 60
agctgttctc atatgctatc ctgggatttg ccttgtctga agctatgggt ctcttttgtg 120
tgatggttgc ttncttgngn gtgcttnnca ngaccnaaga ncataggaaa cacctgagta 180
gctcttntcg tgctggccac caggagaagg agcantatag tcgcctgagn gnnggcggcc 240
attatnacag ccngaanaca ctttctacnt cttcaatg 278

<210> 1210
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

<400> 1210
aattccgttg ctgtcggaag ctagatggac taggagagac ttgattttgg tgctaaagtt 60
ccccagttca tatgtgacat ctttttaaaa aaaataacaa caaaaaaaaa atganananaaa 120
agctaaaaaa aaangnangg ggngancagt naanggnatt nattccacat ncaanatcng 180
ggnaaaacga tttcctgtaa aagnaccttn aagggttttn gntntaaaan nccgnaggtc 240
tatccttaaa gcantnacnc cangctttnt tccctgggtt t 281

<210> 1211

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1211
aattccgttg ctgtcgctca gcccgcctgc acccaggtga aataaacagc catgttgctc 60
acacaaagcc tgtttggtgg tctcttcaca gggacacgga tgaaatttgg tgccgtgact 120
cggatcgggg gacctccctt aggagatcaa tcccctgtac tccttttctt tgccctgtga 180
gaaagatcca cctatgacct cagtcaggtc ctcagaccga ccagcccaag gaacatctca 240
ccaattttaa atcagacctt gaagatttgt tgttcaagga gaaactgaag agcaagaagg 300

<210> 1212
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 1212
aattccgttg ctgtcggaaa tgacccgccc tcaatgctgg ctgctgctaa cattaatgag 60
aaggtggcct tcagcgtgna nctgaggnnn naangncaca nnanntgaat gcttnnagcg 120
acngaaatgg aatattctga naatgancan nancnncacc actacnacag aaagangttg 180
gaggctnctg taccctgntc attccttang ggncntgctt nccttaataa gtaagtaagt 240
tggtntacng ccctnnatat gcaaatgaga gctgaaagtt tttaaaaggt aca 293

<210> 1213
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 1213
aattccgttg ctgtcgcttt gaaatgtaac aaatggtact acaaccaatt ccaagtttta 60
atttttaaca ccatggcacc ttttgcacat aacatgcttt agattatata ttccgcactc 120
aaggagtaac caggtcgtcc aagcaaaaac aaatgggaaa atgtcttaaa aaatcctggg 180
tggacttttg aaaagctttt tttttttga aacggagtnt tgctntgtng cccaggntgn 240
agggcannan nncnatctng gntaattgca ccntccgttt 280

<210> 1214
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

<400> 1214

aattccgttg ctgtcgctga gtaatctgga agaaacctgc cccatgacat gtattctcgg 60
aaagtgtgct gtgttgtcat tcaaggactt cctctcctgc aggccaactg aaataccaga 120
aaatgacatt ctgctttgtg agagccgcta caatgagagc gacaagcaga tgaagaaatt 180
caaaggattg aagagggttt nactctctgc tanagcgtag acgatnnant ttacnctntc 240
nnanctcnat nttncanct 259

<210> 1215
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(276)
<223> n = A,T,C or G

<400> 1215
aattccgttg ctgtcggtct ctgtgtgtac ctcccattga gtagagaagc ttaagataat 60
ttctgagaga agaacactgc tgattgtggg agcagtttag gagtccatgg aagaaagaaa 120
aatacatgtg tcttggcagc catggtgtat ttttgtccaa atggattgga aggatatttg 180
aatatttgaa tgntgntncn acataangtt gannnncact ntcnattcnn ccnntgaant 240
acantnctgn cnancnctnt cnccttaatn tcnttc 276

<210> 1216
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 1216
aattccgttg ctgtcggtag agatcatctt tacagttcct cgggaaaatg tgaatgtgct 60
gcgttttgtt ttctttactg tatgaaaaca ggaaaataaa agagaaattt agaaaataca 120
gctcattaca ataaaattgt tggatttcat ttccccaggt cttcagtgtt gatgtaaatg 180
tgttttgtag tgttgcttag cactttgcgc attgtgtang ttgggtaaca nntanggcta 240
nctaanngca nnntttccan ncntttngnt ctgaanacct tcntttannc tgcccattg 299

<210> 1217
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 1217
aattccgttg ctgtcgcagc tttattgctc acacaaagcc tgtttggtgg tctcttcaca 60
cggatgcgca tgaaatttgg tgccgtgact cggatcgggg gacctctctt aggagatcaa 120
tccccegtcc tcctgctctt tgctccatga gaaagatcca cctatgacct caggtcctca 180
gaccgaccag cccaagaaac atntcaccaa tttcaaatct ggncttcana tggaaaggan 240
cnngtatccn naaagangtg atcaangatt gcntnctgag ganntcatat gcactt 296

<210> 1218
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1218
aattccgttg ctgtcgcgaa ataatacgtg tagatgcccc tgatccaggt gcagacccgc 60
tggctagcag tgtgaacggc atgtgcctgg atattcctgc tcacctgagc atccgcatcc 120
tcatctcgga tgctggcgcg gtggaaggga ttactcagca ggagatactc ggtgtagaga 180
caaggttctc ctcagtgaac tggcagtacc agtgtgggct tacctgtgag cacaaggccg 240
accttctccc tatcagtgca tccgtccagt ttattaaaat tcctggcagt taccccaccc 300

<210> 1219
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1219
aattccgttg ctgtcggcca ggaaaggcaa ggggcagatc gagaagagga agctgcggga 60
gaagcggcgc tccaccggcg tggtcaacat ccctgccgca gagtgcttag atgagtacga 120
agatgatgaa gcagggcaga aagagcggaa acgagaagat gcaattacac aacagaacac 180
tatacagaat gaagctgtaa acttactaga tccaggcagt tcctatctgc tacaggagcc 240
acctagaaca gtttcaggca gatataaaag cacaaccagt gtctctgaag aagatgtctc 300

<210> 1220
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1220
catcttggcc atgctggtct tgaactcctg acatcgtgat ccatctgcct cggcctccca 60
aagtgctggg attacaggca tgagccacag tgcccggcca ttttgcccat tttttaatca 120
ggttatttgc tttttggga agattcgcgg ccgctatcta cgtagatcca gacatgataa 180
gatacattga tgagtttgga caaaccacaa ctagaatgca gtgaaaaaaa tgctttattt 240
gtgaaatttg tgatgctatt gctttatttg taaccattat aagctgcaat aaacaagtta 300

<210> 1221
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1221
aattccgttg ctgtcgagca aataccaagg cctaaaaaag aatgaattat ttgctgtttg 60
ggaaatggaa gcccacgctg agtgctgaag cacagggact ctgcgcagga agaggagggg 120
aagcaagaaa tgaatttggg tccttgtgat ggcagtggct gctgccatca cgctgtgtgg 180
ctagggctgc acacttcatg gagccggtgg aagccccgtc cctcatgagt tgggactgga 240
gccgcaaacc gctgctgcag acccaggcct tctgctctat ggagcaggca ggagccccac 300

<210> 1222
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)

<223> n = A,T,C or G

<400> 1222
aattccgttg ctgtcgcagc cttgttttat gccacttttc tctccccata ccttcccctc 60
atgtgtactt agccacctgt gttgctttga atctgctgcc agttctggct caaatgtggc 120
acaaaatnag nacttnagac gcaccatgan ntncntgtgg ctatnnnttc tnangantng 180
tttnacnntt nctgtnntat nntntgntta ngnttnagnn gtnnnnnnta nnnnnaaata 240
nnnnatgatg nttntgncna tcnntntnat 270

<210> 1223
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1223
aattccgttg ctgtcgcttc gtggagctct tccagagctg gccgctgctg gagaggccct 60
ggaaggcctt cctcaacctc tcggccatcg tgctcttcct gttcatctgt ggcctcctgc 120
cctggatcga caacatcgcc cacatcttcg gcttcctcag tggcctgctg ctggccttcg 180
ccttcctgcc ctacatcacc ttcggcacca gcgacaagta ccgcaagcgg gcactcatcc 240
tggtgtcact gctggccttt gccggcctct tcgccgccct cgtgctgtgg ctgtacatct 300

<210> 1224
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1224
aattccgttg ctgtcggaag aacataaaca ggatgctgag agattgggtc tctccacatt 60
gccccggctg ctctccaacc cctgagttca agtgattcac ctcccttggc ctcccaaagt 120
actgggatta caggcgtgag ccaccgtgcc tggctgagaa gatggattta agacatattt 180
tggaggtaac attgtcagga cttcctgaag gattanatgt ggaagggaag gataagaaac 240
agaccaagga taactttcaa atgtatgctt aagcaactgg atggataatg atgccattga 300

<210> 1225
<211> 286
<212> DNA
<213> Homo sapiens

<400> 1225
aattccgttg ctgtcgcgaa tggtttagcg ccaggttccc cacgaacgtg cggtgcgtga 60
cgggcgaggg ggcggacgct atctacttag atccagacat gataagatac attgatgagt 120
ttggacaaac cacatctaga atgcagtgaa taaaatgctt tatttgtgaa attatgtgat 180
gctattgttt tatttgtaac cattataagc tgcggatata caagttaaca acaacaattg 240
cattcatttt atgtttcagg ttcaggggga ggtgtgtgag gtttta 286

<210> 1226
<211> 268
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 1226
aattccgttg ctgtcggcgc ggggcagcaa cagtcgcagg agatgatgga ggttgacagg 60
cgggtcgagt ctgaagaatc cggcgatgaa gaagggaaga aacacagcag tggcatcgtg 120
gccgacctca gtgaacagag cctgaaggat ggggaggagc gnttgnagga nganttnnnn 180
nnnttnttnt ngtgcttnnn canttnnant nnncttccnt nanagttngc tnnangnnnn 240
nnttttatan nntatcnnnn nnatcatt 268

<210> 1227
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 1227
aattccgttg ctgtcgcagg aagtgaggat acttctggcg agcgccggtt gctgtttctt 60
ctcaggctca gggaccggcc gcggccccgt agggggtttt aactcaaatg ggtgatgaaa 120
aggactcttg gaaagtgaaa actttacatg aaattcttca ngaaaagaaa cgaangangg 180
aacangagga gaaagcagag ataaaacgct taanaaattc tgatgaccgg gattccaagc 240
gggattccct tgaggagggg gagctnanag atnactgcat ggagatcac 289

<210> 1228
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 1228
aattccgttg ctgtcgcttt ttatcacctc ccctcctcac acctggtccg gcttacagtt 60
tcgttccgtg actagccctc ccccacctgc ccagcaattt actcttaaaa aggtggctgg 120
agctaaagac atagtcaagg ttaacgctcc tttttcttta tccnnaatnn gatacgtnta 180
agntcctttt tnaanncann ttannnnnna gncnanntna tgncttnann cncnntnanc 240
ntgctgagac ncannaatnt ttaa 264

<210> 1229
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1229
aattccgttg ctgtcgggag tcggaacatc atcttcagcg ggctatttca gcacagcagg 60
tgtatggcga gaagagggat aatatggtta taccggtccc agaggcagaa agtaatattg 120
cttactatga gtctatatat cctggggaat ttaagatgcc aaagcagctc attcacatac 180
agccttttag tttggatgct gaacagcctg attatgattt ggattctgaa gatgaagtat 240
ttgtgaataa actgaaaaag aaaatggaca tctgcccatt gcaatttgag gagatgattg 300

<210> 1230
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1230
ctatctacgt acagccagac atgagaagat acattgatga ggttggacaa accacagcta 60
gaatgcagtg gagaaaatgc tttatttgtg aaatttgtga tgctattgct ttatttgtaa 120
ccattataag ctgcattaaa caagttaaca acaacagttg cattcattct atgtttcagg 180
ttcaggggga ggtgtggggg tggagttgtt caggtatctt gggatatata tatgcattct 240
aaaatctgta gcagcataac tcctttggga atcatgagac atttttgtct cttacctgtt 300

<210> 1231
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1231
aattccgttg ctgtcgcagg aggaagccgc ctacatccaa gagatcacca cggcagatgg 60
ccagaccgta cagcacctgg tgacctccga caaccaggtg cagtatatca tctcccagga 120
tggtgtccag cacctgctcc cccaggaata tgttgtggtc cctgaaggcc atcacatcca 180
ggtacaggag ggccagatca cacacatcca gtatgaacaa ggagccccgt tccttcagga 240
gtcccagatc cagtatgtgc ctgtgtcccc aggccagcag cttgtcacac aggctcaact 300

<210> 1232
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1232
aattccgttg ctgtcgccag gaccctgggg aaaggaagcc agcccccagg gccagtcccg 60
gaggggctga tccgcatcta cagcatgagg ttctgcccct attctcacag gacccgcctc 120
gtcctcaagg ccaaagacat cagacatgaa gtggtcaaca ttaacctgag aaacaagcct 180
gaatggtact atacaaagca cccttttggc cacattcctg tcctggagac cagccaatgt 240
caactgatct atgaatctgt tattgcttat tcttgagtat cagaacacca ccttctttgg 300

<210> 1233
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1233
aattccgttg ctgtcgccca aacccactcc accttactac cagacaacct tagccaaacc 60
atttacccaa ataaagtata ggcgatagaa attgaaacct ggcgcaatag atatagtacc 120
gcaagggaaa gatgaaaaat tataaccaag cataatatag caaggatcct cctgtttacc 180
ctgtacctcc aatgtctggc acttgtaggt gctcaaatat tcgttgaatg aatgaaaaat 240
ccatattgta attgatgtcc tctggccaca tagttttaaa attaggtgat tgattatatg 300

<210> 1234
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(279)

<223> n = A,T,C or G

<400> 1234
aattccgttg ctgtcgttca aatatggaga ttaatcacca acttcttatt ttttgggcca 60
gttggattca atttttttatt taacatgatt tttctatatc gttactgtcg aatgctagaa 120
gaaggctctt tccgaggtcg gacagcagac tttgtattta tgttcctttt tggtggattc 180
ttaatgaccc tttttggtct gtttgtgagc tgagttttct tgggccaggc ctttacaata 240
aggcacgtct ntgngtggnn cncnantgaa ccccttatg 279

<210> 1235
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1235
aattccgttg ctgtcgggtt gttaaaaatg tcatctcaag tcaagtcact ggtctgtttg 60
catttgatac atttttgtac taactagcat tgtaaaatta tttcatgatt agaaattacc 120
tgtggatatt tgtataaaag tgtgaaataa atttttttata aaagtgttca ttgtttcgta 180
acacagcatt gtatatgtga agcaaactct aaaattataa atgacaacct gaattatcta 240
tttcatcaaa ccaaagttca gtgtttttat ttttggtgtc tcatgtaatc tcagatcagc 300

<210> 1236
<211> 207
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(207)
<223> n = A,T,C or G

<400> 1236
aattccgttg ctgtcgctca gttttggcgg agcaaagtcc tagaggtggc caaggacttc 60
cctgagtaca cctttgccat tgcggacgaa gaggactatg ctggggaggt gaaggacctg 120
gggctcagcg agagtgggga ggatgacaat gccgccntcc tgaacgacag tgggaaaaag 180
antgncnttt ngnnananga nnnngnt 207

<210> 1237
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1237
aattccgttg ctgtcgccca ggccatgaag cattatacag aagccatcaa aaggaacccg 60
aaagatgcca aattatacag caatcgagct gcctgctaca ccaaactcct ggagttccag 120
ctggcactca aggactgtga ggaatgtatc cagctggagc cgaccttcat caaggggata 180
gtccccttc tgaaaacact cgttgccttt gttcttctcc tccaaagcca gctaaattcc 240
aaataccaga gactgaaatt ttcagccttg ctaagggaac atctcgatgt ttgaaccttt 300

<210> 1238
<211> 249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(249)
<223> n = A,T,C or G

<400> 1238
aattccgttg ctgtcggctg acagctattt tgaaatttgg agcagaggat ctcttcaaag 60
aactggaagg ggaggaatca gaacctcagg aaatggatat agatgaaatt ttgcggttgg 120
ctganacgan agagaatgaa gtgtcancna gtgcncagat gaanttctat cacagantaa 180
ggttgtnaan tttgcagcna tggangatgn gtaactnntn taaaancntg gncntgnttn 240
gtngggata 249

<210> 1239
<211> 269
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(269)
<223> n = A,T,C or G

<400> 1239
aattccgttg ctgtcgggac aacgccaagc tggtgcctgt gctctcagcc aaggcggccc 60
aagccagtga cctggaaaaa atccacctgg atgagaagtc tttccgttgg ttgcacaacg 120
aggaccagat ggctgtggag aagctttntg acgggatcng caagtttgcc ngtgatgcag 180
tnaagcnnnn ncgcttnctt gnnagatnga atgtntttat ngttaatngn aanantttgg 240
tntctanntg gtgtntntnt nattatgnc 269

<210> 1240
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 1240
aattccgttg ctgtcgatat tttggaggac gggtgaagag gtaataacga aagcaagcga 60
gtgaattagg atttcaaagt gccctaatag tgtgagtctc cagttcctag aatatgaaga 120
gtgctgtcgt tggggtgaaa ccatgagact gacagatctg cctgaaatgg ggggtgtgta 180
angtgtcgtn cctgagtggc nnggnnnngn ggntatgngn gntngngggn ngnggnntng 240
nntcggngnn gntnncnnnt gtgggnntgn tntntatntn ggnnngattt cggg 294

<210> 1241
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 1241
aattccgttg ctgtcggtat cgccaccgtg ctgcagcacg aggagcgccg ctgccagtac 60

ctcacccggg aggccaagct gatcctggca ctccaggatg aggtgtccgc catggctgat 120
ggaaatgaag gtcctcagtc cccattccat cacatcctgc ccatttgcgt cattgcccna 180
aacctnaagg aancttatga nagcctgngn ncgtnagacg tantgcggct tcacatnaac 240
anctggctng anntgagctt ttgcntgncc tacatgaacc actat 285

<210> 1242
<211> 250
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

<400> 1242
aattccggtg ctgtcgaacc atccagatta gatgtcacca acagtgagag cccagaaatt 60
cctttgaatc caattttggc cttggatgat gaagggacac ttgggcccct gcctcaggta 120
gatggtgttc agacacagca gactgcagaa gttatatgag tgntanttct gaanaaccnt 180
tgctgacttt ttntgnnaan ttnttacant nanngnaatt tctttcctgn tctatnngat 240
cantntctcc 250

<210> 1243
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

<400> 1243
aattccgttg ctgtcggaaa gggctaaaca tgtgaggcct ggagatagtt gctaagttgc 60
taggaacatg tggtgggact ttcatattct gaaaaatgtt ctatattctc atttttctaa 120
aagaaagaaa aaaggaaacc cgatttattt ctcctgaatc tttttaagtt tgtgtcgntn 180
tttncggcng aactaanttc natncnttga ncttanctnn tangctnggn cctcnatncn 240
tnatnntncg nagagatcga nncnnt 266

<210> 1244
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1244
aattccgttg ctgtcgaagt ggcttaggga tggggtagag tagttgactt atttggatga 60
aaaccactat cttctgtcag aaactcaaaa ggaatcattg ctggcatggt aacctaaaga 120
aaaacaacca gacaagtgcc caacgacact taaaaaggtg atttattagc ttgccaagtt 180
taggctgggc atggtgactc atgcctctaa tcccagcatt ttgggaggct gaggctggtg 240
gatcaccgga ggccaggact ttgagaccag cctgaccaat atggcgaaac ctcgtccctg 300

<210> 1245
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1245
aattccgttg ctgtcgcaat taaacacccc agtgtgaatg agaacttctg caatgaaaag 60
gaaggggctc agttcagcag tcatcttatc aatcttctga accctaaagg aaagccagca 120
aaccagctgc ttgctctcag gactttttgc aattgttttg ttggccaggc aggacaaaaa 180
ctcatgatgt cccagaggga atcactgatg tcccatgcaa tagaactgaa atcagggagc 240
aataagaaca ttcacattgc tctggctaca ttggccctga actattctgt ttgttttcat 300

<210> 1246
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1246
aatttcgttg ctgtcggtgg aagataacca caaggccgac atcagctcct ggttcatgga 60
agccatagag tacatcgatg ccgtgaagga ctgccgtggg cgcgtgctgg tgcactgcca 120
ggcgggcatc tcgcggtcgg ccaccatctg cctggcctac ctgatgatga agaaacgggg 180
gaggtgtggg aggttttncc aagtgcttct gtagatancg tcantnggac tagatattcn 240
acaggccnta acttgantct attgccnntg tctttatnan atgtacnttt tatattctgt 300

<210> 1247
<211> 287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(287)
<223> n = A,T,C or G

<400> 1247
aattccgttg ctgtcggaaa aattaaagaa gatgatgctc caagaacaat agcttgccct 60
cataaaggct gcacaaagat gttcagggat aactcggcca tgagaaaaca tctgcacacc 120
cacggtccca gagtccacgt ctgtgcagaa tgtggcaaag cttttgttga gagttcaaaa 180
ctaaaacgac accaactggt tcatactggt gagtagccct ttctgtgctc gttctaaggc 240
tgtgggaaac gctttncnct gtcttcantt ngcncacncn tgtgcga 287

<210> 1248
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1248
aattccgttg ctgtcggccg agcttgacac cctcaacgag gactcctaca aggactccac 60
gctcatcatg cagctcctcc gcgacaacct cacgctctgg acgagcgacc agcaggacga 120
cgatggcggc gaaggcaaca attaaggccc caggggaact ggcagcgcac gcggatgcta 180
ctactgcagt ctttattttt ttcccatgag ttgggggtcg ggtgggggag gtgtgggagg 240

gnatgacctt cccagggaga aacccacgac ctgtcctgnc tttgatcgnc tctttgacat 300

<210> 1249
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 1249
aattccgttg ctgtcggcag tttggggaag tctggatggg ttactataac aacagtacca 60
aggtggctgt gaaaaccctg aagccaggaa ctatgtctgt gcaagccttc ctggaagaag 120
ccaacctcat gaagaccctg cagcatgaca agctcgtgag gctctacgct gnggncacca 180
gggaangagc ccattnacat catcatcgat tacntngtna aggncantnt gntgaatttt 240
ntgnttannn atnanngcca nnannntnnn tctacnaaan nntatttcta t 291

<210> 1250
<211> 231
<212> DNA
<213> Homo sapiens

<400> 1250
aattccgttg ctgtcggttt tggaggccct tgcttttctt catcatgagg gctatgtcca 60
tgcggacctc aaaccacgta acatattgtg gagtgcagag aatgaatgtt ttaaactcat 120
tgactttgga cttagcttca aagaaggcaa tcaggatgta aagtatattc agacagacgg 180
gtatcgggct ccagaagcag aattgcaaaa ttgcttgccc aagctggcct g 231

<210> 1251
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 1251
tttggacaaa ccacaactag aatgcagtga aaaaaatgct ttatttgtga aatttgtgat 60
gctattgctt tatttgtaac cattataagc tgcaataaac aagttaacaa caacaattgc 120
attcatttta tgtttcaggt tcagggggag gtgtgggagg ttttcannca ccacctgaca 180
cttttgctga agntgnagga canactgaac cggcncctga nctgngacct gatgccanac 240
ganaatatnc cngagttgnn gnntganctg nngcanntgg gctacagtt 289

<210> 1252
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1252
aattccgttg ctgtcggaga cacattacac ctaaccaaca agaagaagga tcctccccct 60
tataatttaa ctatgtttac agggaatgcg tacattgtgg cttcccgaga tttcgtccaa 120
catgttttga agaaccctaa atcccaacaa ctgattgaat gggtaaaaga cacttatagc 180

ccagatgaac acctctgggc cacccttcag cgtgcacggt ggatgcctgg ctctgttccc 240
aaccacccca agtacgacat ctcagacatg acttctattg ccaggctggt caagtggcag 300

<210> 1253
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1253
aattccgttg ctgtcggggg gatcaggata ctcctgctca cagacaccca tctcccccta 60
ccaaaaataa cgctggagtc ctccttccac cctgactctg cctctctgtc tgcaggagcc 120
tggtcggggt gctccacaga agctgtgcct gggcttggga gccaaggcca tgtccctctc 180
ccggccaggg gagacggagc ccatccacag tgtcagctat ggccatgtgg ccgcctgcca 240
gctaatgggc ccccacaccc tggccttgag ggtgggagag agccagctcc tcctgcagag 300

<210> 1254
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1254
aattccgttg ctgtcgcgag ttcatccatc aatttcctga ctcgagttag tggcattggt 60
ccatctgctg caaggaagtt tgtagatgaa ggaattaaaa cactagaagg ctcacagctg 120
gattcatgcc cagtaaaggg acacctgaat ggaactgagt cacttttaga cttaatatgg 180
gatgttatga caattcttaa gttaaaaaat gcagatctca gaaaaaatga agataaattg 240
aaccatcatc agcgaattgg gctgaaatat tttggggact ttgaaaaaag aattcctcgt 300

<210> 1255
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1255
aattccgttg ctgtcgggtg cctggctgcc ctagcaaggc agtagaccca ggcctgcctt 60
ctgtgaagca agagccacct gacccagagg aggacaagga ggagaacaag gatgattctg 120
cctccaaatt ggccccagag gaagaggcag gaggggctgg cacaccccgtg atcacggaga 180
ttttcagcct gggtggaacc cgcttccgag atacagcagt ctggttgcca aggtattacc 240
accttgctct tgactggaaa tgcaactgtg gttaccacct gtgctgcagg tccgtcctgg 300

<210> 1256
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1256
aattccgttg ctgtcggggg gatcaggata ctcctgctca cagacaccca tctcccccta 60
ccaaaaataa cgctgggctc ctccttccac cctgactctg cctctctgtc tgcaggagcc 120
tggtcggggt gctccacaga agctgtgcct gggcttggga gccaaggcca tgtccctctc 180
ccggccaggg gagacggagc ccatccacag tgtcagctat ggccatgtgg ccgcctgcca 240
gctaatgggc ccccacaccc tggccttgag ggtgggagag agccagctcc tcctgcagag 300

<210> 1257
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1257
aattccgttg ctgtcggtgg ttgacgagct cggcggcggt tttgctgaga tctgtggccg 60
tcggcagctg gtgcgggggg cagctgagag cgagaggtgg atcggggcgg tgtgtggcca 120
gggccatgac gggcaatgcc ggggagtggt gcctcatgga aagcgacccc ggggtcttca 180
ccgagctcat taaaggattc ggttgccgag gagcccaagt agaagaaata tggagtttag 240
agcctgagaa ttttgaaaaa ttaaagccag ttcatgggtt aatttttctt ttcaagtggc 300

<210> 1258
<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(252)
<223> n = A,T,C or G

<400> 1258
aattccgttg ctgtcgaata aaagcaaaca gaacactcca acttagagca ataacggctg 60
ccgcagcagc cagggaagac cttggtttgg tttatgtgtc agtttcactt ttccgataga 120
aatttcttac ctcatttttt taagcagtaa ggcttgaagt gatgaaaccc acagatccta 180
gcaaatgtgc ccaaccagct ttactaaagg gggaggtgtg ggaggttttg ggatganaan 240
acnngtttcc ca 252

<210> 1259
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1259
aattccgttg ctgtcgcgtt cctgtctgag ccccaagcca cctcagggtc aagagcaaca 60
gggccaagag gatgaagtgg tcttggtgga agggcccacc ctcccagaga ccccccgact 120
cttccccactc aaaatccgtt gccgggctga cctggtcaga ttgcccctca ggatgtcgga 180
gcccctgcag agtgtggtgg accacatggc cacccacctt ggggtgtccc caagcaggat 240
ccttttgctt tttggagaga cagagctatc acctactgcc actcccagga ccctaaagct 300

<210> 1260
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1260
aattccgttg ctgtcgctga aggtcatcag gcagtctgct gggcaaaaga caacctgtgg 60
ccagggtctg gaagggccct gggagcgccc acccccctctg gatgagtccg agagagatgg 120
aggctctgag gaccaagtgg aagacccagc actaagtgag cctggggagg aacctcagcg 180
cccttccccc tctgagcctg gcacataggc acccagcctg catctcccag gaggaagtgg 240
aggggacatc gctgttcccc agaaacccac tctatcctca ccctgttttg tgctcttccc 300

<210> 1261
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1261
ccgcactata gaatacaagc tacttgttct ttttgcagga tcccatcgag aaaaaactgg 60
ccatgcagaa gtcgtccgag tggtgtacca gccagaacac atgagttttg aggaactgct 120

caaggtcttc tgggagaatc acgacccgac ccaaggtatg cgccagggga acgaccatgg 180
cactcagtac cgctcggcca tctacccgac ctctgccaag caaatggagg cagccctgag 240
ctccaaagag aactaccaaa aggttctttc agagcacggc ttcggcccca tcactaccga 300

<210> 1262
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 1262
acgtacatcc atacatgata agatacattg atgagtttgg acaaaccaca actagaatgc 60
agtgaaaaaa atgctttatt tgtgaaattt gtgatgctat tgctttattt gtaaccatta 120
taagctgcag taaacaagtt aacaacaaca cttgcattca ttttatgttt caggttcagg 180
gggaggtgtg ggaggntttn ntggatctgn ccgnccnccn nangtncacn ncntgcnngt 240
ggcngangnt nccntcaagc cctngnnttn ngntcctttc attgtccaac aatga 295

<210> 1263
<211> 256
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G

<400> 1263
gctatctacg tagatccaga catgataaga tacattgatg agtttggaca aaccacaact 60
agaatgcagt gaaaaaaatg ctttatttgt gaaatttgtg atgctattgc tttatttgta 120
accattataa gctgcaataa acaagttaac aacaacaatt gcattcattt tatgtttcag 180
gttcaggggg aggtgtggga ggttgccccn tngcaaaggn gnnctaggct ctctnggnga 240
ttnnnngttt tcccga 256

<210> 1264
<211> 205
<212> DNA
<213> Homo sapiens

<400> 1264
gctatctacg tagatccaga catgataaga tacattgatg agtttggaca aaccacaact 60
agaatgcagt gaaaaaaatg ctttatttgt gaaatttgtg atgctattgc tttatttgta 120
accattataa gctgcaataa acaagttaac aacaacaatt gcattcattt tatgtttcag 180
gttcaggggg aggtgtggga ggttt 205

<210> 1265
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1265
aattccgttg ctgtcgtgaa aaggcaggtc ctctgttatg aactatttca gagcaagacc 60

cgtcacagaa aatttaaaga aattcaagtc ccatataatg tccagtggat ggcaatcttc 120
agtgaacaac tctgtgtggg attccagtca ggatttctaa gatacccctt gaatggagaa 180
ggaaatccat acagtatgct ccattcaaat gaccatacac tatcatttat tgcacatcaa 240
ccaatggatg ctatctgcgc agttgagatc tccagtaaag aatatctgct gtgttttaac 300

<210> 1266
<211> 239
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(239)
<223> n = A,T,C or G

<400> 1266
ctatctacgt agatccagac atgataagat acattgatga gtttggacaa accacaacta 60
gaatgcagtg aaaaaaatgc tttatttgtg aaatttgtga tgctattgct ttatttgtaa 120
ccattataag ctgcaataaa caagttaaca acaacaattg cattcatttt atgtttcagg 180
ttcaggggga ggtgtgggag gttttnntnn nnnnnnnnnn nnnngntttn ntnnnnnng 239

<210> 1267
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1267
aattccgttg ctgtcgttcc cattcagctc ttggggtgaa gccttattcc tgatgctcca 60
gacgatcacc atctgcttcc tggtcatgca ctacagagga cagactgtga aaggtgtcgc 120
tttcctcgct tgctacggcc tggtcctgct ggtgcttctc tcacctctga cgccccttgac 180
tgtagtcacc ctgctccagg cctccaatgt gcctgctgtg gtggtgggga ggcttctcca 240
ggcagccacc aactaccaca acgggcacac aggccagctc tcagccatca cagtcttcct 300

<210> 1268
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1268
aattccgttg ctgtcgctac cattgcaaga ccccagattg caagggatgg tgcttctttg 60
aggatgatgt caatgagttc acctgccctg tgtgtttcca cgtcaactgc ctgctctgca 120
aggccatcca tgagcagatg aactgcaagg agtatcagga ggacctggcc ctgcgggctc 180
agaacgatgt ggctgcccgg cagacgacag agatgctgaa ggtgatgctg cagcagggcg 240
aggccatgcg ctgcccccag tgccagatcg tggtacagaa gaaggacggc tgcgactgga 300

<210> 1269
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1269
atgaaatctc tttcatccga gcaggagaag gtgctcttaa acaagccttg gcaaatgcaa 60
cattatgtat tcttgaacct attatggctg tggaagttgt agctccaaat gaatttcagg 120
gacaagtaat tgcaggaatt aaccgacgcc atggggtaat cactgggcaa gatggagttg 180
aggactattt tacactgtat gcagatgtcc ctctaaatga tatgtttggt tattccactg 240
aacttaggtc atgcacagag ggaaagggag aatacacaat ggagtatagc aggtatcagc 300

<210> 1270
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1270
aattccgttg ctgtcggcaa ctcggaggag aagaccccgg cccccaggct agctgcggag 60
aaaaccaaga aggaggagta catgaagaag ctgcacatgc aggagcgtgc tgtggaggag 120
gtgaagctgg ccatcaagcc cttctaccag aagagggagg tgaccaagga ggagtacaag 180
gacatcctgc gcaaggccgt gcagaagatc tgccacagca agagtggaga gatcaacccc 240
gtgaaggtgg ccaacctggt gaaggcgtac gtggacaagt acaggcacat gcgcaggcac 300

<210> 1271
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1271
aattccgttg ctgtcgagca ctcgcagatt tctgaaagga caggacgaag atcaagtgca 60
cagtgttcct atagcacaaa tggggaacta ccaggaatac ctcaagcaag taccttctcc 120
actaagagaa cttgatcctg atcagccacg aaggttgcat acatttggca acccctttaa 180
gctggataag aagggtatga tgatagatga agcagatgaa tttgtggctg gacctcaaaa 240
taaacataaa cgacccggag aaccaaatat gcaagggatc cctaaaagac gtcggtgttt 300

<210> 1272
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1272
aattccgttg ctgtcgatgc gaccaagggc atcactcggt gcctcctgaa tgaaacaacc 60
aacaataaga acgagaagga gcttgtgcta aacacagaag gaatcaacct cccagagcta 120
ttcaagtatg cagaggtcct ggatctgcgc cgcctctact ccaacgacat ccacgccata 180
gccaacacgt atggcattga ggccgcgctg cgggtgatcg agaaggagat caaggatgtg 240
tttgccgtgt atggcatcgc ggtcgaccct cgccatctct ccctggttgc tgattatatg 300

<210> 1273
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1273
aattccgttg ctgtcgaatt ggtttggcac ctactacagg atgatccaga ccaacttcat 60
tgacatggag aacatgtttg acttgctgaa agaggagaca gaagtgaagg accttcctgg 120
agcagggccc cttcgctttc agaagggccg tattgagttt gagaacgtgc acttcagcta 180
tgccgatggg cgggagactc tgcaggacgt gtctttcact gtgatgcctg gacagacact 240
tgccctggtg ggcccatctg gggcagggaa gagcacaatt ttgcgcctgc tgtttcgctt 300

<210> 1274
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1274
aattccgttg ctgtcggcat tcgcattcct gctctcttac ccccaacgtc cacagagctg 60
gatgttcctc acaatgtcca agtggctgca gtggttggca ttggccttgt atatcaaggg 120

acagctcaca gacatactgc agaagtcctg ttggctgaga taggacggcc tcctggtcct 180
gaaatggaat actgcactga cagaaagtca tactccttag ctgctggctt ggccctgggc 240
atggtctgct tggggcacgg cagcaatttg ataggtatgt ctgatctcaa tgtgcctgag 300

<210> 1275
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1275
aattccgttg ctgtcgagca gcggaagcgt gaggctgagg agcggcgccg cttccccctg 60
gagcagcgac taaaggagca catcattggc caggagagcg ccatcgccac agtgggtgct 120
gcgatccgga ggaaggagaa tggctggtac gatgaagaac accctctggt cttcctcttc 180
ttgggatcat ctggaatagg aaaaacagag ctggccaagc agacagccaa atatatgcac 240
aaagatgcta aaaagggctt catcaggctg gacatgtccg agttccagga gcgacacgag 300

<210> 1276
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1276
aattccgttg ctgtcgctta cttctcacac ccagccatcc gctatcaccc tcaggagacg 60
ctgaaagaat ttgtccaact tgtctgccct gatgctggtc agcaggctgg acaggtgggg 120
ttcctcaatc ccaatgggag cagccaaggc aaggtgcaca acccattcct tcccacccca 180
atgttgccac cgccaccgcc accaccgatg gccaggcctg tgcctctgcc ggtgccagac 240
acaaagcctc caaccacgtc aacagaagga ggtgcagcct cccccacgtc accaatcctg 300

<210> 1277
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 1277
aattccgttg ctgtcggtct tgatcttctg acctcgtgat ccacccgcct cggcctccca 60
nagngctggg attacangcg tgagctaccg tgcccggccn catattnctt aatganaact 120
ttnttgaaan ccttcattat ttctgtgnct ttgganttag gnancagaga ttcataggta 180
ccttnagaan ganagaaatn tctctacnca natgagtcnt ccannсctgg aagnnataat 240
nnaactgnnc tcactactcc aanctttaag aagctnnatg angctcattn taaggaa 297

<210> 1278
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 1278

aattccgttg ctgtcggttg acccgccaag gcagcctctt cctccataga tggatgaacg 60
ctgtggccgc tgctcctgcc tgggccatgc cctgatgctg ccaacaccac tgctcctcta 120
tttataagnn ttagtacagn tgnatgaccc ttcaatannt gaacagnnga tatgttcctn 180
acantaagnc nannnctnna tangaatnnn tcantgnant nnncataaat atatnccttn 240
ncnanatcna nncnttntna ntagnnaann tcntttnatt nntattctt 289

<210> 1279
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 1279
aattccgttg ctgtcgagcc tgcctgcccc caggtgaaat aaacagccat gttgctcaca 60
caaagcctgt ttggtgtctc ttcacactga ctcgagtgaa ctttgatgcc ntggctanta 120
tattttcant atntnttatn anattatntt tncntccttn ttnnttttn nnnnttttta 180
aagnntnntt ttngntnntt ttnttttttt nntnncnntc tttttntnct nnattntctt 240
cnntatcttt nntantnctt ttctntnnnt nntgattnnt ntnnctttt tgat 294

<210> 1280
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1280
aattccgttg ctgtcggcaa acaggtggcc atgaaacaga tggtcataga attggttcag 60
tggttgtgag tgcagcaacc caagagtgtc ttatctgaaa taccaccagg aatgtctgga 120
cacagtagac aaagtttttt caactggacg ccttaggata catgcttcca aaaacaaagt 180
agccaaaaag aaaccagagt cacagaatat cagagccaaa ggaacatttg gaggtaattc 240
agtacctcct ccttttcaac ctacagggga gatagtggaa gagaagcagg gatgggtctg 300

<210> 1281
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1281
aattccgttg ctgtcggaag agagcccgaa actaaacagg gaggaatcca ccatttagaa 60
gtctggcagg caaagaggac aagagagtgt caatgaagac ctcaaagtct ggagaaaaat 120
gacctttcat ggaataagaa gtatacctcc ttctacatgt ttttgtctta ctgacctctg 180
ataactggaa cacatgactc tgggtctgta gaaagtcaac tgatcaaact catcctcacc 240
atgcatcaac tgttcagact ggttttggga caaaaagatc tttcacgagc tggggacctc 300

<210> 1282
<211> 287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(287)
<223> n = A,T,C or G

<400> 1282
aattccgttg ctgtcgcaga atcttaactt atcttaatga tatttaccta tcctttttgc 60
aactcacaac tgactttgtc acagaggtaa tgcatctgct tgcaggaagt agctgtaggc 120
tcagtacctg ttgtttgagt cagatttagc agatttggtt tttaagcttg tgggtttgtg 180
ctaatttggg cagaatatat ttattatata tgtgtgtgtg tatgtgtgta tgtgtgtgtc 240
tgcatacgna ntacctgtac atagacacac atgcatgtgg tcatcct 287

<210> 1283
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1283
aattccgttg ctgtcgccag ggctgagaag ataaggctac ttataggggc gggaagcatt 60
gaagctggtt tctggcccta gcgctcccct gcgatgagat gtgggagcca gtgtgtccct 120
gcctgtccat cctgtgcacc cccagctttc cttgtcacct gaaaccacct ctgagggaag 180
gtggtggcgt ctcagatgca tgggcatgtg gctggtcagg tggcctccat cccagggtgc 240
cccgtctgtg tgacctccct ctgggtgctg tgggcttgct ccagggtgca ggtgcaaccc 300

<210> 1284
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1284
aattccgttg ctgtcggttt cggccaatct gttacctcag tgttgccatc ttcattgcca 60
aagcctcctt ttgggatgtt gtttggatct cagccaggtc tttatttgtc tgctttggat 120
gctacacatc agcagttgac accttcccag gagctggatg atctgataga ttctcagaag 180
aacttagaga cttcatcagc cttccagtcc tcatctcaga aattgactag ccagaaggaa 240
cagaaaaact tagagtcttc aacaggcttt cagattccat ctcaggagtt agctagccag 300

<210> 1285
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1285
aattccgttg ctgtcgggct gcagttccgg ctacctgtgt agtccgagtt tccacagcca 60
ggtactactc cgccagtgac cctggacagt aacaaaacat ataaagcccg agcccaaacc 120
ccgccaccat catagtgtgg gaattttgct gtcctcgtgg atcttcatat cttgccacaa 180
ggttcaaaca aagatacaag ctggttttct gaacagaaga aagaggaagt ctgtttactg 240
ttaaaagaaa ccattgattc aagagttcag gagtacttgg aagttcgcaa acagcacagg 300

<210> 1286
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1286
aattccgttg ctgtcggtct caggccactg cgccaccgcg ctggtgctga gcagaagcgg 60
gcagaagtgg ggtctgcttt caggacttca tttcccccac tcgttccggc cccgcatgct 120
ccacgtctgc cctttggtct gagttaaaac tgcgatgctg aaaagtgcga gctctttcca 180
cgaggaggag ccacacaggg tggcctccga gggtgagtcg ctctgctaag caagggcagt 240
cgctgcacgt cagcccgcag gccaagggtc cagcttatcc tgggtgctct gtgatcagaa 300

<210> 1287

<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

<400> 1287
aattccgttg ctgtcgagaa ttcggaagaa gccgggaccc aagcccggat ggaagaagaa 60
gcttcgttgt gagagggagg agcttnccnc catntnnann ttttnttacc atngnctgnn 120
ctttcntcta cnnnnnntnt atnntgngtt ntttttcttt nantcnnttt ttttttantt 180
tttttnnncc nttgtttttt nttccttntn ttntnttntt tntntttnnt ttnctntttn 240
gtttttntan tactttttttn tnttcttttt ntgtttattg gntttttgtt ct 292

<210> 1288
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1288
aattccgttg ctgtcggtga ccaaaaggaa agggcaacag caggagccct gttagtgctg 60
ccagaacacc aggaagcctt gtgggaggcg tattgtccaa gatgatgcgt attgtccaaa 120
cgactcagaa gaagtcattt ctgaagggtt gatcataact tccctagcca tgttttacct 180
acagagaact tagttagaat ttatgagtac agtatgttaa attactttta gtgtacctta 240
ggcagtgtat ttgttttgat acagagacaa agactatatg atccctgaga cttgttgcct 300

<210> 1289
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 1289
aattccgttg ctgtcggttt ttgtctgggc ttgtctagca gtggaattct gcctgagttc 60
atcatttttg tgactggtac ttgaagtgca tcagatgatt aatttcatga taagagggct 120
ttttggcgtg gtgaaataga catttatgga aaatgggata cccacattaa gcagggtgac 180
tacctgttta ccatacaacc cacacaaagc caatacaact atggatgngc tttatatant 240
ctgntgcctc tgcaaacatt gaccgtg 267

<210> 1290
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1290
aattccgttg ctgtcgggac cactccagaa ttggccgctg gcggtatcat ggcgacccgg 60
aacccccctc cccaagacta tgaaagtgat gacgactctt atgaagtgtt ggatttaact 120
gagtatgcaa gaagacacca gtggtggaat cgagtgtttg gccacagttc gggacctatg 180
gtagaaaaat actcagtagc tacccagatt gtaatgggtg gcgttactgg ctggtgtgca 240
ggatttctgt tccagaaagt tggaaaactt gcagcaactg cagtaggtgg tggctttctt 300

<210> 1291
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1291
aattccgttg ctgtcgctga aagtaagaga aacagactct agctagttta agctggaaaa 60
taaattatta aaactattct gtagctcata gcatctccag cagggctaga gagttagcca 120
ggaataatgt cccaaaggtc acagccaagc cagcctggca gagccaccct ggacactgat 180
accactgttt gccaatgcca ttgatttggg ccctgggtgg tggcactaag ggctcactcc 240
cctaagcctc tggaaacagg atttggctgt caccaccctc ccagggtgca tttttcttgg 300

<210> 1292
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1292
aattccgttg ctgtcgcaat ggcactgctt atctccgaaa tggtgtgatc gtctcctcat 60
tgagcagcgg ctgccaccgc gctgtgggta gtgtgtgacc gtggctgtac tgtatagtga 120
acatagttgg catatctttg tttgaagttt gttggtgact ccaccaaact ggtgtgaaaa 180
aagaaaaaag ctcaaaaaaa tccacaaaaa gacaaaacac acaaaaaaaa tcctgcctat 240
attttactca gtttcaaact ttattagtct atttttaatt ataaaaccag aaagctacaa 300

<210> 1293
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 1293
aattccgttg ctgtcggcag atgacctcaa agcacaactg gagttggctc agaagaagct 60
acatgatttt caggatgaga tcgtggagaa cagtgttacc aaagaaaagg acatgttcaa 120
tttcaaacga gcccaggagg acatctctag acttcgcagg aagctggaga ccacagagaa 180
accagacaat gtacccaagt gtgatgagat tctgatggaa gagantaagg attacaangc 240
tcgctngacc tgnacgngct antccatgng taattgganc tngntattca tat 293

<210> 1294
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1294
aattccgttg ctgtcggagg gcaggagcat tcatctctgt ggccacatgt ttggtccagt 60
gtctgacaaa taacattcaa cttgtaggaa caagtgatag cagagcatcc tttctcagga 120
acaaggccca tcccctggtg agctgctcca ctggagtccc aggtccctaa cctgtggcct 180
aggtagacct taggatttgc ctcactgatg ccaatgagtt gctgctgctt acttttgaaa 240
caaagtgttg gcatgttcca gctgctgcga ttcaattgcc tttcagacag tgtggtgccc 300

<210> 1295
<211> 284
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(284)
<223> n = A,T,C or G

<400> 1295
aattccgttg ctgtcggagg attcctaagg tgtcagcatt ttgtaaaggt accacaaagg 60
agaagttgat agggaatcta attttagaat gtgccaaatg gtctgtgctc aacaatataa 120
ttgaactctc tcaactctac ctcaccattt ctttatctca aaattctgnc ggctttgtna 180
naccnncgat ntnntntntg nnncnancnn gannnncnaa ncanttacnt nngntngccn 240
tgtttnntnc tcnnnnctcg ncgttatntn atccnnncac atac 284

<210> 1296
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1296
aattccgttg ctgtcggtcc cgggctcaca gtggcacgac tgaatcctca gagtcggctg 60
gcttttgagc tctcacgatg ggggaggagg gggcgtttct ggttcgcagc tccagaggat 120
tgcgttcctt cccccatacc tgtcccccac agtcacgctc tgccctgacg tgcagcattt 180
gacaagttac cccctcgcca catactactt ccacccacgt ccgagttaac tttgttctta 240
accttcttga gactaccctc ggcctccagg tctttttttc ccagttcatt tttgcccata 300

<210> 1297
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1297
aattccgttg ctgtcgggaa aagatgcacc gattgctctt aagaggaaac tggagatgaa 60
agccttgagg gaattagaca gattttctgt tttgaatagc caacacatgt ttgaagtact 120
agctgccatg aatcaccgat ctcttatact cctggatgaa tgcagtaagg tggtcctaga 180
taatatccat gggtgtcctt taagaataat gatcaacata ttgcagtcct gcaaagacct 240
ccagtaccat aatttggatc tcttcaaggg acttgcagat tatgtggctg caactttcga 300

<210> 1298
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1298
aattccgttg ctgtcgaagg agtcctccat ccagaagggc aatatccgac agagacagaa 60
gtgcctggaa tctcaaaggc agaacaacca agaaaccccca aacctaaagt tgagcccctg 120
tgccaaggtc aaaggcgaag atgcaaagtc ccaggtatgg gccttcacat acacccagca 180
gatcctccag gaggagctgt gcctgtcagt catcaccttg ttccctggcg ccccagtggt 240
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<210> 1299
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1299

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gacagatgac ctgccggccg cctttgtgga tggcaccacc agtggtgggg acagcgatgc 180
caagagcctg cgtatcgtgg aaagggagag tggccactat gtggagatgc acgcccgcta 240
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<210> 1300
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1300
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tgggagaagc ctttagagtg ggcgttgagc aggccattag ctcgtgccct gaggaggtgc 180
atgggcggca tgggctctcc atggaaatta tgtgggcgcg aatggatgtg gctctgcgct 240
cacctgggcg aggacttctg gccggtgccg gggcactctg catgaccctg gcagaatcga 300

<210> 1301
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1301
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aggccccctc cgtggagaaa agatggagcc ggattaagca cccagtgcta aggcgactaa 180
gacgccactg cccgcaggcc ctgccggaaa atactcagag agtgcagcag gcgccgcgat 240
tccttagaaa gtgctggcgt ggcctctcct gacacagaaa gccggctcct ggatgcttac 300

<210> 1302
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1302
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ccgggggcct cggaccccag ggctcaggag atggatccag tccctggcgc tcctacttcc 180
caactgctcc tcctcccgca tccccacagt accccgtcct cacagcgggc tgtgggtcca 240
atcagacttt cccctcggat tcctctctag gactgaacca agacttaccc gaagttgccg 300

<210> 1303
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 1303
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ggaagcatgg agggaggaag cagaattgcg ggaccactgg cgcantgnnn ggatcangag 180

ctatacttct tccngaactg atcnntgntn cctgcatntt ntgcacnagg nnnnaggatn 240
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<210> 1304
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1304
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atccccttct tgattgtatc ttaattttct ggctttaagg cgacatctga gaggtaatgc 180
attctttttt atattgaaat cataaactat cacccgctgc ttctctgagt tacttttaat 240
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<210> 1305
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1305
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aacaccactt tatgtactga agcatgaaca gaaaaatcaa gagctgagca gaccacctcc 180
tttatgtagg caaaacttcc atcattttgg cttttgttct aaacagaact aaatgacatg 240
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<210> 1306
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1306
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tgaccacacc gaaggagtgc ccaccagcaa gagacctgga gacatcccca attcctgcaa 180
gcagaatctg ggatgaacag tctgcatgcc tctcgccacc tgtcccaggg attccctgtt 240
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<210> 1307
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

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actaacttaa attgatanca ttgtngntga tatnnacaat naatattnnt ccnaaacnnt 180
nanttnacan ntatantnna natcnnnnnt nnatanntat ntatntntaa cnnttnnngc 240
cnnnnnntat nttatttttn ttcnttnnng annnncngan tgncntttca tat 293

<210> 1308
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1308
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tcttcaaaag atttagaaac aatagttact cttaagaaga ctatcagaat ctcaccacac 120
agggagagtg accattctag tctaaataac aaatatttga atggatgtgg agaaatatca 180
gtttcagaaa tgaatgaaaa gttcacaact ctgtgttata ggaagtataa tgatgtctct 240
gatctttgca aattagaaaa taaacaatat tgtaggtggt ccaagaacca agatgacagt 300

<210> 1309
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1309
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tcgttttgaa gtttgggcct cagcagactt gcatatattt gactgcaatt gcagcatttg 120
caagaagaag cagaatagac acttcattgt tccagcttct cgcttcaagc tcctgaaggg 180
agctgagcac ataacgactt acacgttcaa tactcacaaa gcccagcata ccttctgtaa 240
gagatgtggc gttcagagct tctatactcc acgatcaaac cccggaggct tcggaattgc 300

<210> 1310
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1310
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gggttcttct gttgcccctg cctgtgctgc acgtcctgct tcacagtgta aagcgcaact 180
cttgctgtgc cttattgtaa caggtatagg gtggatgctg ccatcatgaa gagagaggag 240
agctctttgc ttataaaatt ccgtagagtg gagaacaggg tgtgccggct taggagaggg 300

<210> 1311
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1311
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ggtgccggct ggtcagcagg tcacctgcca ccaggccctt cacctgcaga tgggctccat 120
cgcctgtggc ctcgctggtt aggctaaagg gcagcccggg ctcctgcggg ttggagagct 180
catagcagga atgtctgggc ccaaccagtt ctcacaggct cctcaggaga cagagcctgg 240
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<210> 1312
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)

<223> n = A,T,C or G

<400> 1312
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ttagcatttt ccttcagacc cccatcccac acacatgcta gccgcgctca gagcttccag 180
gggtactaga ccctgtgaaa ggccatttgg gcctggcctt tgtgtcgggg gcccctcttc 240
gccacacgtc aggtctccta accccaccct ggccctagca tcttccatca gagactctgc 300

<210> 1313
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1313
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agactttggt ctttgttgga atcctttgaa attggaatat ggaagcccct ctatcccacc 120
attgtcagtg ttgcatatcc ctagactctc ttccagagtc accctggggc tgacttaaat 180
tctgggccac aacttcaaat ggctgttaac gtttcccccg acccaaaaca cacacacccc 240
atgtctgaca tctaagcaga aagactgggg gttggggagg aagtcttggt gtttttagga 300

<210> 1314
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1314
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ggtctcctcc tgcaggtgtt gtttcggttg atcacctttg tcttgaatgc atttattctt 120
cgcttcctgt caaaggaaat cgttggcgta gtaaatgtaa gactaacgct gctttactca 180
accaccctct tcctggccag agaggccttc cgcagagcat gtctcagtgg gggcacccag 240
cgagactgga gccagacccct caacctgctg tggctaacag tccccctggg tgtgttttgg 300

<210> 1315
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1315
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gcacccgaca cccaggagag tgggctacag gaagaggatc tgagaccaga gcccacagag 180
tctgcagaaa ctagaggcac aaggcacgag gaatcacaaa gcaaacttaa gtgccgacat 240
caaagaaggc attctcaccc tgtttcctgc ttctgggttt ctccacattc ctatagcctt 300

<210> 1316
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1316

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tttttcctct ttacccctca gctcaaaact cagaatccta gacttttgac tagctagtgt 180
aactcgttat ttacttccac taatgtctcc tcccagttga tgcccaggtc tatcgagttt 240
gatcttattc ttaagagata gaattgggga gtagttcttc catccagtat tgggtaaccg 300

<210> 1317
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1317
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aatatcgcag cagtgtttgt aagaggattt ttagtttgtc atgcttaaac agacccctca 120
gtattctcac agagaactga agcaattcat tttcaagact aacaagagca cagcatctgc 180
atgcatgtgg caggtatgtt agtgaatgtt gtgaagtagg tggtcccatc agttgtcatg 240
gttcacctct gtccagactg tgattgtgtg actcgcagtt ggcacttcag caaagcttag 300

<210> 1318
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1318
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acccgctcaa ctgatccaat gcaaccaata cagtattgga agctttctac gaacaaggca 120
cccagagagg gctcggagga agatgacagt gccaacgggc acagggagaa tcgtgagctt 180
actgcacctt cccagcaggc agagtgagcc cgtaggacaa gagccccctt tctccgtttc 240
ccatctgccc tgcagccccg aggaacggtc cattctacag acaagaggcc tgaggctcag 300

<210> 1319
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1319
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gatgcagttg gatcagaagg agtttttgct agaagaaaaa taaatcccaa agcacaaact 180
gtactaatgt tgggttctgt ggtatcatct ccatatccat aaatcacatt tgatttggat 240
gccactggaa atttaatggc ttaggaaggg atgggtttca tatgcagagt gaaactttaa 300

<210> 1320
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1320
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ccctggctcc ctggaccagg acattccctt tgtgtgtgtt ggaatgagag caggaggagt 120
gctggtcaga agcccctccc cagggctctg ggacttcagt gttctcagac aaactgggcc 180
gctcctctga gctgggatgc tgacccacac ttggccccgg ctctggcatc cacaggacgc 240
tgccttatcc gtcatctcgc tggggctggg ggctagaggc tgagcaggtc acactgaaca 300

<210> 1321
<211> 270

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 1321
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gccagcgagg atgaggactg aggctcaatt tggagacacg ggcctatgtg acctcagggt 120
gcaggcggng ggaggancttc nctcttatgg ggntcatggg aacaggggng ggngngactt 180
gcttggnggc ctcattccat gtgngcctgn gcctggggca tggacnntgn taagcanagn 240
cagctgngag gnccnnattc tncagacgtg 270

<210> 1322
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1322
aattccgttg ctgtcggcag gactcctatt ggcacagatc gaaaccataa tagatactgg 60
ctcttctcag atgaagttcc aggattattc attgaaaaag gctgggtaca tgacagcatt 120
gactaccgat tcaaccatca ctgcaaagac cacacagtct ctggtgatga ggattactgt 180
cctcgcagta agaaagcaaa cttaggtaaa aatgcaagca tgaacacaca acatggaaca 240
gcaacagaag ttgctgtaga gacaaccaca cccaaacaag gacagaacct atggttttta 300

<210> 1323
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1323
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gacagcgtgg ggctggattg caaacgctac ctgggcctca ccgtcgcctc ttttcttgga 120
cttctagttt tcctcacccc tattgccttc atccttttac ctccgatcct gtggagggat 180
gagctggagc cttgtggcac aatttgtgag gggctcttta tctccatggc attcaaactc 240
ctcattctgc tcatagggac ctgggcactt tttttccgca agcggagagc tgacatgcca 300

<210> 1324
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1324
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acctcacgcc ctccatctac acagagtttc cagatgaaac cttgaggagc ggagagctgc 120
tgaacatgat cgtggctgtt attgactctg cacagctcca ggagctggtc tgccacgtga 180
tgatgggtaa cctggttatg tttcgaaaag actcagttct caacatactc attcagagcc 240
tagactggga gacctttgag cagtattgtg cctggcagct ctttctggcc cacaatattc 300

<210> 1325
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1325
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tttccagtga tgtcactctc tggcaggatt gtggggggtg gcttacgcca ggtgagtctg 120
tctattggtc ctggttatgg gcacttatta ccaggcagtg gcgtaggggg tagggcctgg 180
agtgaggtgg ggattttaaa gtgagcagat gccagaggta gtgagccaac agcagggctg 240
tgctcttggc cccagcaga gcatggttgt atagtatcag ctgaggattg gttccaggat 300

<210> 1326
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1326
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gtgatccaca tctgagacag agagagctgg accaggatag gactgaagga ggactgaggc 180
tgagagatgc agaaagcgct gtcagggaag gatcccttga gatggcaata ggacctctaa 240
gtaggcgtgt aacagacaag gggagagcgc ccttctccac aatgcaggga ttttatcatt 300

<210> 1327
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1327
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gggctttgat gggacttagg gtatcacagg tgtgctctgg ctgttgtggg gaacagactg 180
taggcagcca gtgtggaagt gcagggacct ggaaggggtt gactgcactg gccctggaag 240
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<210> 1328
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1328
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taggtctcag ccactgtgcc aggagctcgg gactccctcc ctccagaggt ttctggaatg 180
cattcagcag gaaaagctaa aagaacagga ctccaggaga taagccaagg ccaagtctat 240
cagagggtga gccagcagcg ggaaggggac cagcccttcc cctagcgttt tttctgcccg 300

<210> 1329
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1329
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gaggacggag agctcagctc tgtccctgcc cagctggtgg gtggcgtagg ccaggatggt 180
gtggcagaac tggaagtccg cctggaggag gccctgtcag ccgtaaaact tgtggggccc 240
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<210> 1330

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1330
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<210> 1331
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1331
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aagtattacg ccttcccacc aggcaatttg gactgtcttt gaatcctgtc tttggtactg 180
tcttggacat gttcttaata tgaacctctg cttcttcatc tggatcacac tataccccag 240
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<210> 1332
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1332
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tgttcttcct tgagttggta cagtgaaata tgcattgaga gtcccagggc agtcattgcc 240
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<210> 1333
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1333
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tggagtggac acaacctgaa aaccaactgg actgagcatc cttctcctaa aatctcagcc 180
agaagccacg atggagggtc ctgggaaggg aagagatgtg aagatttctg tgattctaaa 240
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<210> 1334
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1334
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tacgtctact gggaggatca aggcagctga gaagaaggaa gcgtaatgta gaaagcaaca 180

gaaaaaagga aacggaactt cttggctctt tttctaaaaa tgaatcagtt cccgaagttg 240
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<210> 1335
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1335
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ccactcagga ggctgaggca gggaggatcc attgagccca ggagtccagc ctgggcaaaa 120
tagcgagaga ccctgaatct gaaagtaatg ataaaataaa aagaatataa atgaggtctc 180
gttgatgctg gacaattcaa gaattcagac ttgaacctta aacctaggaa aagttacttt 240
gtatcaggat tctaacaatt atgcttcata tttgtgaagt cctttaaaac ataattttct 300

<210> 1336
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1336
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ccttggcagg tgccgtccac actccagcac tcagggaggg gcggtgcaca tcctcaaaaa 180
ctgaccacac tggcactggc gcccaggtgg tgagtaggcg ggctgtggtc tgcagacaga 240
agctttaccc tgtgcacata cgaggagtaa ctcatttgag tgacgtcact ggactgcggc 300

<210> 1337
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1337
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aaaatctgag cacttaggtg aagggacaag caggtttatg tgtttaaaca gaaagaaggg 120
aaaaggtact atgtgatatg gtactgaaat tttgatccca atagaattca tttctcttac 180
gttgaatccc caatcataat taagccgtat acacagatta aattaacaga agcatttcac 240
ataaatgttg gtttcagtca tcaactaccc atgaattcct gcccaaggat acttaatcag 300

<210> 1338
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1338
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ttgaagagaa aaaatacctt gctggggcag acccttctac tgtggaaatg tgttaccctc 120
ctatcattca gagtggtggc aactataatc tcaagttcag tgtggtgagt gacaagaatc 180
atatgcactt tggggctatg acttgtgcca tgggtattcg cttcaagtct tactgctcca 240
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<210> 1339
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1339
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ttgtgttaga attacagagg atgaaagtat tttaaaatct ctgttgctga acagggacat 120
gtgctaggca gcctacaatt gtcagtttta ttccataggt acgttagtgg tcagaatgac 180
ttcttttttg atggcacaat tattttcata atattagatt gaattaagct ggtgagacaa 240
tctgacccta aaagattcag aaaatgacgc tttgatgtta gctttgaagc agggtattcc 300

<210> 1340
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1340
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cctgttaagt cttcaaataa tgtggcttca aagattttaa aaacttttgt agataggaaa 120
aatttgggag ataatactat aaatatgcca ccattgagta ccatcgatcc tagtgggacg 180
cgatccaaaa atatgcctat taaagataat gctttggtta tgtttaatgg gaaagtctat 240
ctgttggcta aaaaggggac agatgttctg ccatcacaaa ttgaccaaca gaattctgtt 300

<210> 1341
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1341
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gataagactt gatggatgaa ataaccacag tcagtgctag agttaatggt gtatgcagta 120
agggtgaaat aaaataatga aagcccatag gtatttctaa gggggctttc tagattctac 180
gattgatctt tcatattttc taccttccac tttacaaaga aaggcacatt agccagacat 240
cccaaatagt acattgtggt gagaggcctt ccacaccacc agagagacaa atcagaatgt 300

<210> 1342
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1342
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accccaaatg atctgcctgc cttggcctcc caaagtgttg ggattacagg cgtgagccac 120
tgcgcccagc cttgaggtag catactttct gaaataaaaa agtagattat gtccgaagca 180
gttgacctaa aaactgcctt ggactgacat ttgttaggtg gtctaagatg ttctcttcac 240
gctttgcaaa aaaatgagct tttttggagt ttaaattaag catccctctg gtgtgtttgg 300

<210> 1343
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1343
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ttctttgcac aaatttcagt ggaaacatgt tgccaagtca gatcgccatt ctacttgagt 120
gaatatggaa tttgtccagt tttccaaatg cagagctttt tgtgggctga tggactgaat 180
agaaagagga acaaccatac acccttctac agatgaaggc aagattttat gaaagcgact 240
tcattcgttc tcctctgcct ggtgttcctt ctttgtaaac caggaccagg gagctttgaa 300

<210> 1344

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1344
aattccgttg ctgtcggttg agcaggccat tagctcgtgc cctgaggagg tgcatgggcg 60
gcatgggctc tccatggaaa ttatgtgggc gcgaatggat gtggctctgc gctcacctgg 120
gcgaggactt ctggccggtg ccggggcact ctgcatgacc ctggcagaat cgagctgccc 180
tgactatgaa aggggaagaa gagcatgcct gaccctccac cggcacccca cccctcactg 240
ctccacctgg ggcctgcctc tgcgggtggc tgggtcctgg ctgactgttg tgactgttga 300

<210> 1345
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1345
aattccgttg ctgtcgggac caagtgctct caaaggtgct ggcagctgaa gagcgtgtta 60
ggactctgca ggaagaggag aggtggtgtg agagcctgga gaagacactc tcccaaacta 120
aacggcagct ttcagaaagg gagcagcaat tggtggagaa atcaggtgag ctgttggccc 180
tccagaaaga ggcagattct atgagggcag acttcagcct tctgcggaac cagttcttga 240
cagaaagaaa gaaagctgag aagcaggtgg ccagcctgaa ggaagcactt aagatccagc 300

<210> 1346
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1346
aattccgttg ctgtcggggt ggtgaagggt gcctcttcca tggtgttccc atgtttccat 60
tcttcttcct gactccaggg ccacttgacc cctaagggcc cttctttcac tctggtcttt 120
cagagtgtct cagccttcac ttccctttgt gtctctagaa atttacttac actcattatt 180
ttccatctgg gtttgagatt gaacaggttc atctccccca ttactgccaa cccccaaaag 240
cctgggtttc tggagcgtcc ctgccttttt catttttgct tccagaaacc atatacagct 300

<210> 1347
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1347
aattccgttg ctgtcgactt cctgaattac tgacccaagc caaacagaaa caataaccct 60
cgagaaaata ggtcaacaat ctgttgtggg gaaaccacct ccatgtaacc cactggatac 120
agtcccctta atgtttttgc ttctaaattg taccttttgc ttctgatttc ttctcccctg 180
ctgtttcctg cccatcagag aggcctgata caagcaagtt tgtttacatc cctggggaat 240
ctttacatc aaacttttgg gatccaaatc catctccttt taaatttcaa tctcagcacc 300

<210> 1348
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1348
aattccgttg ctgtcggcct tttaatagtt ccagtgaggt gagagctgga tgaggtgggt 60
acaacagaat catcaaaaat ctggccgttg atgggacctc agagtcactt gaggaagcaa 120
catttgagca gcatctagga gccttctggg aaaagatgga gaaaactaaa gacgttaggt 180

ttattgcaaa ccaatcaatc atactcactg atcacctact agaggaaacc tgtgataaca 240
cttgtgggga gatttataga aagaagacgt atttgcacat caggatttta catcatgatg 300

<210> 1349
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1349
aattccgttg ctgtcgtttt cgcttggcta ctcagatttt actaaagcag gtcacatggc 60
cagcctgtat ttaacaggcc aggaatgtat aatcctgttt tcagagagaa gcaccaaaca 120
caaggaacaa taacaaagac actgtggagt gtcctaagag gcttggagcg gtcataaaat 180
aaaactgtac ccatgaatgg atgaccatgt agatgggtca cctctccttg cgacctaact 240
gaaaccacag tagaaccaca gtagaaacca cctccaagtg aggttcctac aagttctgtc 300

<210> 1350
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1350
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gctatcttca agaaccggaa gagaccactc ccaccccac cccgcccctg ctttcgctct 120
tctctgcaat ggggtctccg aaaggagaag actgcagccc tgtgaccctg gaggtttgcg 180
ctctcctatg ctgtctcaaa aaactgcctc cttctaggca agggcttcca aaccctcatc 240
ctgatctcac cttcagcctt acccgccagc tatgatccac tcgactgtga acttaaactc 300

<210> 1351
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1351
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catgaaatga aaccagtttt aaaacaacgg atgtcagagt tcctgaaaga ctgtgcagag 120
cgaattataa ttttaaagat tgtccataga aggataatca acagattcca ctccttttta 180
ctctttatgg gccatccacc ttatgcaatt cgggaagtga acataaacaa attctgcagg 240
attattagtg aatttgcact agagtatcgc acaaccaggg aaagggtttt gcagcagaaa 300

<210> 1352
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1352
aattccgttg ctgtcggcct gggaagatat atgtctgatt ttcggacttg gaagcaagat 60
aaaggaaaga ggctgctggt ttatggtata gagattttca ctcgttaaga aagtaacaaa 120
gtaaggaagt aggattattg tagaaatatt attttacagt tcaagtttgt aaaacacagg 180
tgaaggtaat cgttggtggg tctcttcctc tgagatcacc aaattatctg tagactggtt 240
ggtagacttg gagagaccac ttgttcttgg acaacagtta gaagcatact gccctaagca 300

<210> 1353
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1353
aattccgttg ctgtcgattc tcacgtgttg ttcccctccc gttctccagt ggcaggacct 60
ccacctgaag gagaacgtcc ctccttccct tttgctcctg tcccgcacct tctacctgat 120
agatgtgaag cccaagccga ttgagatacc actcagtggg gaggctccaa agactgatat 180
tcttgtggaa ttacctactt tcactgaatc taaagagaac atggtggatc ttgcacctca 240
actgaaggga actaaggatg aagactttat acagccgcca ccagttacat catcacccat 300

<210> 1354
<211> 217
<212> DNA
<213> Homo sapiens

<400> 1354
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tctcaacatc aaatgtgaca acagccatac aggctttaca aatatgtaga ctggcctagt 120
ataagagaac agggagtggg cacatattta gcgcattgca atgggcataa atacctgaag 180
ttacttgacc cgtggaagag cccttgacag ccatata 217

<210> 1355
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1355
aattccgttg ctgtcgtaga aacctagata gccaagtgga acctgcaatc aagaatgaat 60
aagaatgagg ctatagtgat gaaagaagca agtaggcaaa aaactgtagc tttaaaaaag 120
gcatctaaag tttacaaaca aaggcttgac cattttacag gagctattga aaagcttact 180
tcccaaatta gagatcagga agccaggttg tctgaaacaa tttcagcttc caatgcctgg 240
aaaagtcatt atgagaaaat tgtaatagaa aaaaccgaat tggaagtaca gattgaaaca 300

<210> 1356
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1356
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ctggaccaga aaaaggacac tagtgagaca actggcagaa tttgcataag aagcacggcc 120
tcggcctcgg gtggtggagt cactgctgag cccatgacgt tctgcttata ttccatccct 180
gcatttggaa gtcgttcttt gccaggagga aagtgaggaa aaaccagcaa taacaaaaca 240
gcagctctac tgacggagga ggaggagccc aggaggcggc tggtcagggc ccaggtgtgg 300

<210> 1357
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A,T,C or G

<400> 1357
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aagatgcagc ccagggaggg accatgtggg ggactggtct aggtagtgag tccccacttg 120
gagcctctgt gatcccagac catcatggag gagcagctgg tactgaagcg ggtggccaac 180

atcctcatca acctgtatgg catgacggcc gtgctgtcgc ggnccatccg ntccatccgt 240
attggctccg caaccacgac cacgangtta cttgtncnan accttttg 288

<210> 1358
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1358
aattccgttg ctgtcgggct gaaaggccta cagattaaaa actaacactg cctcccctgc 60
agtgagatag tccttcatt ttagctcctt gcattgaaat agcattgagg attaaatttg 120
tgtaagcccc acaaaattca aaatttatgt gcttttctga ccacttgcct tctagtggaa 180
attttaagca tattagagga tatgtttctg tgggagctga tcagaatggt actaggagta 240
caaaagaata tctaaaacta aaacacagct atatttcaga tcatactgct tcatcacatc 300

<210> 1359
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1359
aattccgttg ctgtcgaaaa catctattct gatgtcagag gactatctca gaaccagcaa 60
atacctcaaa attctgttac gcctaggaga ggaaggagaa agaaagaagt taatcaggac 120
atactagaaa acaccagttc tgtggaacaa gaattacaga tcactacagg tagggaatca 180
aaaagattaa aatcatctca gctgttggaa ccagcagttg aagaaactac taaaaaagaa 240
gttaaggttt catctgttac aaaaaggact cctagaagaa ttaaaagatc tgtagaaaat 300

<210> 1360
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1360
aattccgttg ctgtcggtgc cactgcactc cagcctgggc gacagagcaa ggctctgtct 60
caagaaaaaa aaaaaaaaat cancnttttt aaanccgatn tactttntat gttnccntan 120
ntgggnaana cagnaatgag ngggtnaagg cattgngtcn aaaanatgng gggnnancct 180
gtngnacttg aangnaatcn ttccntaatt ttnccncnta aananggnat taatanccag 240
cnccacncct gngaggaaaa atttgnaan gccccntntt tacgggaaaa tttaaaaaaa 300

<210> 1361
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1361
aattccgttg ctgtcggtat gattgaggga atgctgggaa tgtgtgtaaa cacatacata 60
tgttgtcatg tgttacctta attgacctat acagttcttg agtacaagat taaaacctgt 120
ttctgagtat gtgattgtat caatgagggc tctttctgat gtaaattttg agaaattcaa 180
ccttagttgt tttaagtaag taaaaagaag gtttattgat catctgattg aaaaacctaa 240
ggcagggcta gctatagatg gttcacttgg gccagtttct tccccagcat cctccttcat 300

<210> 1362
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1362
aattccgttg ctgtcgcttt agcagatcat gtctctgcta ctcgaatctt gtgtggagcc 60
cttgtctttc ctactattgc tacaatagtt ggtaaattga tgttcagtag tgttaactct 120
aatttacaaa ggacaatctt gggtggaatt gcgtttgttg ccataaaagg agcatttaaa 180
gtttacttca aacagcagca atatttacga caggcacacc gcaaaattct gaattatcca 240
gaacaagaag aagcataaaa ctgacttctg gttgttctgc agttctctca tccttatgaa 300

<210> 1363
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1363
aattccgttg ctgtcgcagg aagtagccgt gtctagcgct ctacaagaca cataggagag 60
gtggcatcca tggccctgaa acgacaagcc catgttgcca gcgcattatc accaagtcac 120
ttggcaagcg tttagcagac tactggtgcc tggatgatct gtaccgggag atggtgagat 180
gctatgtgga aatcgttgag aagcttccag aacgccggcc agacccagct accattgaag 240
gctgtgctca gctaaagccc aataactacc ttctcgcctg gcacacaccg ttcaatgaat 300

<210> 1364
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1364
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aatttctgaa tgctcctcag aacgccaact caggcagaga atctcaccga aatagagaag 120
aagctcatgc tcctggaaga aacagcccga ggagagccgc tgggccacat ctggccactg 180
tccgcagcgc tgtcagattg ctggggccac atctggccac tgtccacagt gctgtcagat 240
ccaaggagag ccgctgggcc acatctggcc actgtccaca gcgctgtcag atgccgacca 300

<210> 1365
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1365
aattccgttg ctgtcggatg aggggtcctc agctcggtca agaatgttgc gtttcccttc 60
ggggtccagc tctcccaaca tccttgccag ctttgcaggg aagaacagag tatgggtcat 120
ctcagcccct catgcctcgg aaggctacta ccgcctcatg atgagcctgc tgaaggacga 180
tgtgtactgt gagctggcgg agaggcacat ccaacagatt gtgctcttcc accaggcagg 240
tgaggaagga ggcaaggtga gaaggatcac cagcgagggc cagatcctgg agcagcccct 300

<210> 1366
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1366
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atcaattata aaagacctat ccctctttgt tctgttgtta tgataaatag ccaacttgat 120

aaagttgaag gaaggaaatt ttttgtttcc tgtaatgttc agagtgttga tgagaagacc 180
ctatactcag aggcgacaag cttatttata aagctgaatc ctgctaaaag tctgacataa 240
agagctgctg gtgaactcca tctcattctc gcccctccag aagaagcagt tgtcccccaa 300

<210> 1367
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1367
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gagtggggaa tcagcccaaa gccaggcgtc cagggtctcc ctcacctgaa gctgactttt 120
tcccccacctt ggacagaggg cgggagatgc catccccact gaacccagtg ctttcaccag 180
ccatattagc tcccactcac cccccgtcgt ggaagcctcg gccgtcacac ctgcagggcc 240
ggggcgtgca tggcctcagg gatggcctgt tcagctgctg ggtgactcgg gtccaggtgc 300

<210> 1368
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1368
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ctggtcacag gccagaatgc cagctccacc gtcccggccg tgcagaacct gctcttcctc 120
tgtggcagcc ggtgagggca ccagggtggg cacattcctg ccacatcaga gctgcacccg 180
gtgcttttgc ccaagctttg accacacgtc tgtcctgcag gaaatgaacc tgctgggtag 240
atgcaccccc tgagacagcc caggtgtctc cagaggcagc cccgtctcag gcttcaggga 300

<210> 1369
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1369
aattccgttg ctgtcggctt tcgccatctt catccctact tactgtgctt ccgctccctt 60
gggtcccagg atcccactcc ttcgatgaaa ctcagtcttc catctctgcc tggtgcttct 120
gccctggttt ctgctcaact cggcgccgtg tctctgttcc ccaaagttct gtttctgttc 180
tgtgctgccc cctccccctg cccccgtttt ctcttttta agagacaagg tctcggccgg 240
gcatgatggc tcacacctgt aatcccagca cttggggagg ctgaggcggg tggatcactg 300

<210> 1370
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1370
aattccgttg ctgtcgcagt cttcctcttt gtctcatcag actgttatca ctgagggtta 60
gatgagaaaa tctcaaggct gtctgtcttt cctaggccag ctcgctggca caaagccaag 120
aaggttcagc tgacccctgg acagacagag gtgaagattg acctgccgtt gcccattgtg 180
gcctccaatc tgatgattga gtttgcagac ttctatgaaa actaccaggc ctccacagag 240
accctgcagt gccctcgctg tagtgcctcg gtccctgcca acccaggagt ctgtggcaac 300

<210> 1371
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1371
aattccgttg ctgtcggcag tctgtagtct cgtaggtgct gtgtcatatc tgctttctgt 60
ttggagctca gaattacttt ttaaggaatt actttttaag gattaaaaag atttgtggtt 120
gcttcgtggc tttgagaaga cagtagagca ttttcaggaa ttaatgaagg ggagagatgg 180
ctagaggaga gggtgagaga gacttgagtt cttggctatg actatcaggt aaccaaataa 240
aatgccctgt ggaaatgggg accactgatg gaccacaggc atgctgcaca gttgatagct 300

<210> 1372
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

<400> 1372
aattccgttg ctgtcggtga atccaaatta agggatagtc cacaaaataa ctgacaatat 60
tctttagaag tgtcaatgtc atgaaaaaac aaagactgag gattcgtccc agattgagag 120
actaaggggc cacgaggact aaacacaaca tgggaccctg gactaggaaa gggtggtgag 180
tgggacggnc annnngggtg agagggacng aaccanggnn nnnngcnatg cnannacggn 240
nnnnnnngcg ggncnnanaa nnc 263

<210> 1373
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1373
ccatcgattc gaattccgtt gctgtcggca tgtcccggtg gacaggtgtg gaagggactg 60
accctgccac cccgcggatc tccccaggct tctgagttgc tggcggtttt ccttccaact 120
gcagtcccgc agtcctctca gccatgggcc acaccccccgg gtctcagacc ccgtgtttgt 180
tttcatgcca ggaggcagct cagggaaggt caggagatgg ggtgttccca gtcatgccca 240
tggcatctct gcctcctcgg gccccacctg cctcgccctg tggcctgagt cccttcagct 300

<210> 1374
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1374
aattccgttg ctgtcggtca gaagttttgt ttaattctat ggtatttcta aattgacttg 60
tttaaataaa ttcagcaaat ggatagcatt gtttttattt tgcttcaata tgggggtaga 120
taatagctaa agagccaagg atgaatttct tcaaatgact ttattctgtt agctttacat 180
aggtgttgga ggattcctaa ggtgtcagca ttttgtaaag gtaccacaaa ggagaagttg 240
atagggaatc taattttaga atgtgccaaa tggtctgtgc tcaacaatat aattgaactc 300

<210> 1375
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)

<223> n = A,T,C or G

<400> 1375
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caaataagng tttacgcnga aggaccttnt ntganntgnt ntttgtaaac nnnnnnntnn 180
gnttttntnc cggnnncnna cnntnggncc cccttnanaa tnnncnnttt nggtttnnaa 240
atgagggacc nntgaanggn ntnaaaatnc cnangttacn nttnacnann tnaaggaatt 300

<210> 1376
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1376
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acctctttcc tatagaaatt gaagacactt aaataggaag aaaattaaaa tatacatttg 120
gatacatgag tattccagtc aaataatatc tataaaatac cagatagagt ataaaagaca 180
actgaaggac aacagagtga tgaaaggact ttattaggca tttggatttg gttatgattt 240
aaatttcaat ttaattagaa cgtttccatg gcaaggaagg aagcatggag gactgtggaa 300

<210> 1377
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1377
aattccgttg ctgtcggagt gacctgttct cctgagtgct ctagtgtctc cagttgtcgg 60
ggggaaagat gatggagggg aacagaaact ggacttgatg tttgcggttt gagaggcaag 120
aaaataaaat aactttctac ctctaaattg aggcttagga gtaaaaagca ttttgtccta 180
aatttatcat ttaaaatagc atcagtaact tttgagctca tgtcaatcaa gcattggcag 240
tcagagattt tatagggaag actaagtaaa tccagtttcc aagaacctaa actgattgag 300

<210> 1378
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1378
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ggattatagg catgagccac tgtgcctggc cccctcatct gatagaaaat tagattttgc 120
tatgagccat ttcctgaggg ccaatttaat actcgtgtga ctcttcttag agttaccatc 180
tgccttaaat ttcctctgtt tttcacattc ttggaaatat atcattgttt tgcaaatttc 240
tatatctaat tcagggttta ccaggagctt aataattaat ggctacatag caaggcatcg 300

<210> 1379
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1379
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tcagccaaaa aagtctatga attctgtgac cagaaatctc tatcacagat ttattgatga 120
agaaacgaag gataccaaag gtcgttattt tatagtggaa gctgacataa aggagttcac 180
aactttgaaa gctgacaaga agtttcacgt gttactgaat attttacgac actgccggag 240
gctatcagag gtccgagggg gaggacttac tcgttatgtt ataacctgag tcccttgtga 300

<210> 1380
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1380
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ttgtcctagc cttggggctc cccaagactc tgttcttgcc actgaggcta cttcttcctg 120
aggaaaaata aatgataaca gctgataagg gcaggccatg aaaaaagagc agtcctagcc 180
accccagcac catcactggc aggctcccag gtgtaccctg catcacaaga gcttcccttc 240
ttcctatttg ctgggagact aatcctcctc aataattctg tttagtattt acagtttttt 300

<210> 1381
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1381
aattccgttg ctgtcgaaga aatcctgcag ctgaaacact tctctccaaa tgtcgagcat 60
ctttatttat ccaaatctct ccacagtgtt tgtttaaagg ggagcgctgg agagtaaact 120
aaatcttaca atgagcatat ggatggctat aattgctgag gtttgttttt tttttcata 180
tttgctaact cgctatatat aaaattgggt ttctatttta tagatttcac accctgaaaa 240
ctgctaattt ttgcatgcat atgattttca catgaatgga tgaaaatact aaaatctctt 300

<210> 1382
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1382
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ccggggggcct gctgcgcccg gatgcgtctg ttactagagt ggagagtcta ccttcgtctc 120
acatgtgcca caaaggatgg catggcccgg gagtgcccca ccacgtggct ttcacccccct 180
gcaaagccag acttcgccca gcgacacagt gtcaagccca cagctctcca aggaggaaga 240
tggtccaggc tgggagcatc cccttagcag cagcctctga tcccttggcc aagcaggagg 300

<210> 1383
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1383
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tagcacacac atctgttgat aggaaatatt tgagggtttt tccactacca aatgggagct 120
tcatggtcct ggtgtcaaac actataaacc tttgaccagc tgagctgtga ctgctgtcac 180
atatctgagt cctgtgtgca cagtaatatc ctgggtcagg taaaatccag gtcttcaagt 240
tttaaggatt ttttgaagaa ttcgggcttc tttaagacga tccatgccca aatccacaag 300

<210> 1384
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1384
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ccaggacaat cagtatttct ggggaatgga gcctggcaca cacacatttc ttaaagctcc 120

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cttggcaatt ctgaggagtg gattacatgt tgtatgtagc tcgtaacgaa agaaatcttg     180
tctttgctct cagaccccca tttcttactc atctcatgag ctccttcgag atccagaaac     240
agttgcatat ttcattagta aatcagttcc agagtcacat tttatttcac aagttagtcc     300

      <210> 1385
      <211> 300
      <212> DNA
      <213> Homo sapiens

      <400> 1385
aattccgttg ctgtcggtag tattgtaaaa atgtatctat atgttatcct acactaagcc      60
taagctttaa tgaggatatt ggtacctgac tgtcctgtac ttggagcatc tgtccacttt     120
tgaatacatg taacactttg atgctcctgt ccccatggtt tgatgaagta cttaatacct     180
tgaatgctat atttattatc aaattttgaa tgaaatcact agcctaaata caagtgagat     240
gtttttgaaa ttttcatcac ctttgaaaca cctagtattt ctgtagaatt ggattgagga     300

      <210> 1386
      <211> 265
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1)...(265)
      <223> n = A,T,C or G

      <400> 1386
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gggttgtctc ggcatggagg acccaaaagc agagctccct ggtgctttgg gggagagtga     120
agcccttcat tccactcctc attgcagacc agctttcctg gtattcatgc actgcttttt     180
gtaacgcctc aaatgaaagc cacagctcag ccaagtagaa gagagctcct aataaatgaa     240
ntcnggntgc ctttgaatnn ttnac                                           265

      <210> 1387
      <211> 300
      <212> DNA
      <213> Homo sapiens

      <400> 1387
aattccgttg ctgtcgattt cattgccctc tttagaaatt tgcttgatct tgggtcttgt      60
tcagggcaga aagagataat acaaggcttt ggtgatgctt agcatttttag aagaagtaat    120
gctgggtgga aatggatttg gcagtctcgt ttttcgcatc attggaatgg gagtccctca     180
cagttggaga caggatgaag taacagagcg tggggatctg gattaacagg tggccattcg     240
cagaaaggag gctgcaaagc aagaggtggg ggcttctggc tgagcaggaa ggtgggagag     300

      <210> 1388
      <211> 300
      <212> DNA
      <213> Homo sapiens

      <400> 1388
aattccgttg ctgtcggttt ggtcttaggc taaaatccat gttttacgga gaattcaaga      60
aatttttaaa cttcaggtag aactgtgttt tttacaaatg tatagaaagc atagtgccta     120
atgcatggta gaaacatttc tttaaggatg accggatgtt gccgtatgta tttatggcac     180
aagcaggtgt tgtctaagca gtttctctgt ttgcttgtca tagcagcatt tggaaactca     240
aacatgcttt catttacata aatagtttat gaagctttga caacaaatgt aaacagacac     300
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<210> 1389
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1389
aattccgttg ctgtcggggg tcttagtttt caaactctgg caactctgtg aaaaatagga 60
gcaaactaga gagccctgga gattggtagt agggaaggga ggatagcagg aagtttgaaa 120
aattagcagc cccggggcct aaaggaatca gctgtcatca ttttcatcat tattattttg 180
gttaggatgg cttgaaaatc agaacgtatc ttggtttacg taattgaggt cttaaagaac 240
taagaacagt taaatagtca caactaccac cctctgactt acataatcat tggtgtgggc 300

<210> 1390
<211> 287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(287)
<223> n = A,T,C or G

<400> 1390
aattccgttg ctgtcgcatt gcactccagc ctgggcaata agagggaaac tccgtctcaa 60
aaaaaaaaag aaccntagtc gtcngggaan acnttantgc ananacntgt gagngganac 120
ctganggaan tgaanaggna aggagttgtg ctgatatnta ggaggaggan tnttccaggc 180
anacggaaaa naggcccaaa gtntttgagg aaggggcntg ttggccntgt tcacaggaca 240
gcgaggaggc caaagtgggn ggagcaaaga tcccaggggg agaggca 287

<210> 1391
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1391
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gtccctgaat gggtccctgt gtggatctca gtgtgtgtgt ggtttctcca ctcctccccg 120
ctcatgtccc acacctgcca tattgaaccg tttctgcact aatcttctcc acgggcacgg 180
agtggaggga acgtcttggg aaaggggaga gcttgacctc catctaggtt tcttttatct 240
ggagaaaaag aacacttttg aactatgtaa tgcttcgccc tgaaaggcaa gctaacgcta 300

<210> 1392
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1392
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aacctctagt acagacaacc ccaaggttgg tttataagtg gttcctgcta atctataaaa 120
tcagctatgc cactggcatt gttggctaca tggctgtcat gtttaccctc tttggtctta 180
acttattatt caagatcaaa ccagaagatg ccatggactt tggcatctcc cttctcttct 240
atggcctcta ctatggagtt ctggaacggg actttgcaga aatgtgtgca gactacatgg 300

<210> 1393
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1393
aattccgttg ctgtcgtata cctctttgtt atgatactga taaattgtga tcttgcagtc 60
gatcactgat tttctgtggt cagaggattc attattagcc tcttcatgga ttctatcttc 120
tgaaaccctt ttttcttttct tttcattgtg ataaaaaaat cagcatatat gtgactaatc 180
taaatgagag attgattgtg tgagaccact gaaaacaagc atatgtgagt gattccatac 240
tgatttttgt tttaaaattg agcacgtttt aaaaatttttg taaggctcgg cgtagtggtt 300

<210> 1394
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1394
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atccctgctc ctcctttcct tcctctcccc ttcccatgaa tgtggggctt gatttgtttt 120
accccttaag tgggctgaag atgtaaagct taacctcttc caaactagat gctttgaggt 180
tccagctgtc actgagaaca gcttggtagc tggtgcagcg taccagcgtg cagaggcagc 240
attgttcagc tggagcctca ctgctggagc ctcatctacc agagggctcc ttccatactg 300

<210> 1395
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1395
aattccgttg ctgtcgggaa cactaatggc cctccctgga acagacacgg cgcccccccca 60
cagaatagcc tcgatgcccc ctggaacagc ctcggtgccc cctggaacag cctcggtgcc 120
ccctggaaca gcctggtgct cctggaacag acacagcccc cccagaacag acacagcacc 180
ccctggaaca gcctggcgct tcctggaatg gccacatccc cccatccttt ctgtgctgct 240
ttaggcatct gcccttacgt ggttcgtgtc cagctctgtc aacaaggcca gctccacaag 300

<210> 1396
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1396
cacctcttgt tctttttgca ggatccntcg attcgaattc cgttgctgtc gaagtttatg 60
tatattttaa aatattatta aaggaggttt gaaagtattg acatttaaaa agtcaacact 120
tagattaaat ttagctggta gttttaattt gggttttagt taagagtgtg aggacatcag 180
gaaaactgtt tactactttg gttttagcag ctcagtttta ctattccata atgtgttatt 240
tttaaagttc tctttttaag atcacagtga tatcctatct tcaaattttt taaatatgtt 300

<210> 1397
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1397

aattccgttg ctgtcgaaaa aagttaaata atcaaaaatc attcagaaga gagtacctta 60
aaagacccat atacctctga gaatttagaa tgttacaaaa ccgtatttca taccaatggg 120
gaaaggataa actcttcagt gacgaatatt agaaaaagtt agttatacat ttgaggaaaa 180
ctataaaagt accaataatg agtaggaaat cacttctgca gtatttttgg agcattttcc 240
ttaagcatga cataaaagcc aaaggtcaca agggaaaaaa ctgatagatt tgtctgtgat 300

<210> 1398
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1398
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aggtggccac ttcacaaaga atccagaatc atgctcagta aagctcatta aaagccactg 120
cagctgagaa ggttcacagc ccttctttat agccacagag gcagcacaca ggggaggtgg 180
gaagacacag ggaaacgaga gaagaaggat aatgaggcct tgaggtgttc tgccccccaat 240
ttcaaggagc ttatcaggct tcatgtgcaa tttggggagg ggagcttttt gatggtgggt 300

<210> 1399
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1399
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aatcctgcag aatgtaagta agctctgctt tataagatgg gttcaccttc atcgcagact 120
gaaagtttca gtttttattt ttttcagaaa gcacgaaaaa ttatttataa tagtctggag 180
aaaaaacaca ctgtaatatt tcaagtgtat gcagtagaat gtactgtaac tgagcccttt 240
cccacatgtc taggctccaa tgtctcctgt aggtccacct aactgtgtgt tttcagggac 300

<210> 1400
<211> 257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

<400> 1400
aattccgttg ctgtcgaact ttctttgcct ccctccccac agaagcacca gacccacctg 60
agccccagag cctcatgcca gcagctcctg gctgttnctc acctgaggct agagcagcag 120
ctgncanctt atagatgggg cgtatgntan ttaatnctnt nnnannntcc tctnataang 180
tnngnttnnn nngngntntc tttnnaatac gatntgcncn nnctatnntn annanntntt 240
atncnantnn atctnna 257

<210> 1401
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

<400> 1401
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acaccacacc aactgaaaaa tcactgtgaa aaagaacctg gtagtactgt caatatcaag 120
taggattcat taattttctg acattactgg acaagatggt tcgtgccatt cagaaagctc 180
tttttctttc ttcttctttc ctaatacagt gaggcataca acgtagcctg ccttatggtt 240
aannngcntg nngactttat nnttnc 266

<210> 1402
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1402
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cctgaaatct tcccgatcgt taataactcc tcaggtccct gcctgcacag ggtttttttct 120
tagtttgttg cctaagagta caccaaatgt gacatccttt caccaatata gattacttca 180
taccacattg tcaaggaaag gactagaaga atttttgat gacccaaaaa actgggggca 240
agaaaaagta aaatctggag cagcatggac ctgtcagcaa ctaaggaaca aaagtaatga 300

<210> 1403
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1403
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tggggcgctg atggccatgg agggctactg gcgcttcctg gcgctgctgg ggtcggcact 120
gctcgtcggc ttcctgtcgg tgatcttcgc cctcgtctgg gtcctccact accgagaggg 180
gcttggctgg gatgggagcg cactagagtt taactggcac ccagtgctca tggtcaccgg 240
cttcgtcttc atccagggca tcgccatcat cgtctacaga ctgccgtgga cctggaaatg 300

<210> 1404
<211> 209
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(209)
<223> n = A,T,C or G

<400> 1404
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aaatggaggc cttacctcat ttgggcaaag attagtgcta gttattgaag atttactaat 120
aaatgatctg ttaaggaatt tagtttttt tggatatgtt gttttggttg nngaaaacta 180
nggnatantt ataatagnta ttttttgaa 209

<210> 1405
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1405
aattccgttg ctgtcggaat gatcaacttg ttaactattg ctgagatgct gtgtaagaag 60
actgaacatt tgccatttgg tgatgtggaa gctgttgagc ttcactaaat ggtttccacg 120
gagtggaggg gaaaaggctt gtttgagtgg cctcaaatga aattgggaag agagggaaga 180

gacagtgtga gtataaatgg ttccttttgg aaattcagta caggagagca aagaattata 240
gatcgagggg tataaggagg gtcaataaat tttaagagag gatccattat tcatcagttc 300

<210> 1406
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1406
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ttgtcacttt gccatcattg tttagaagtc atagaaagaa tttttaaata ggccaataag 120
tcttaaactt gagtacttgg cttagaagaa agtcaaaact ccttcctttt tgactaagtg 180
gtttgtttct ggggagctct taatttctat ttttataatc attagcctat aaggaaattg 240
tgtcttcctt gttctcaggg tgatctgctg accttgttca ctcatgaagc atttgggtat 300

<210> 1407
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1407
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ccgtaattgg ccctattgca gaaagaaaga aagaaagttg ccctcaaatg cgtgagacag 120
catggcaggc tagggtgtaa cagatgagtt ctgagcaggg aaggtgaatg aagcaagtgg 180
atccttggaa agataaggta aagaaaggat gttagttgga aactagcaat caggaaggtc 240
agctgctgcc tggtctaggt agagtggcag ggcagaggag ggcttggctg gatatggtaa 300

<210> 1408
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 1408
aattccgttg ctgtcgatgt gtctctggta cagaatagtt gatattaaca gaaaaaaaaa 60
aatctgtagc ttcatgaata tgccactctg ttaatttctt gttccagaca ttttaataga 120
gattgcttga gccatgttgt ttgaattgct gccaatagca gaccatatcc ctatcatgtt 180
gttggctcaa ctgttttttt ttttccntaa tanaaangga gtatcnntgg gtngntnagg 240
ctggcnttna actccngggc tnaagctatc ctccngcctn ggcctcccaa agt 293

<210> 1409
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1409
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taggagccca atatagtgat ccagattgag atcctcttct ttttgtatgt gtctggattt 120
tgtttgctag ggttttcagg atttttgtgt atatatgcat gagatactca tctgtagttt 180
tcttgtgatg tctttgtttg gttttggtat cagggtaata ctcgcctcaa agaatgagtt 240
gggaaatgtt tccttctctt ctgtttttg gaagagtttg tgaagaattg atcattcttt 300

<210> 1410
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1410
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gttcatagcc gtgggaggga gggagacaag aactgttgga gacaagaact gttagagacc 120
agagagcaag ggcgtgatgt ggtctgcagg gaggaggctg tctgaggcag aaccgggtca 180
gggaggccat ggtgcgggta ccctccaggc acggcatttg gcctgacttt tgaggggtgc 240
ccagggttgg ctacatggcg gggcggaggt atctttagtg ggggaacagc gttgtgccac 300

<210> 1411
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1411
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gcagattcag catcagatac gtctggagtg cctcgggcat attcattgct actgttgatt 120
tcgtgctcct gtttctgccc taaatgtgtg ccacactgac gaccacagtg tagcccctag 180
tcccgtctcc atctaatctc tccctcatcc taaaggctca gtctccagaa caaatcctac 240
attgtctacc tgtcacctct gtcctagccc aggacacccc ccactccctg gacacctgct 300

<210> 1412
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1412
aattccgttg ctgtcgaaca atttttagag aagaagaaag agaataaaag actgaaaagg 60
aaacagaagg ctcttgctga agaggccagt gaagaggaac ttccctctga tgttgatttg 120
aatgacccat actttgctga agaagttaaa caaataggta taaataaaaa atcggtaaaa 180
tctgcaaaag atggcacatc tccagaagaa gaaattgaaa tagaaagaca aaaggctgaa 240
atggctttgc ttatgatgga tgaggacgag gacagtaaga aacacttcaa ttacaacaag 300

<210> 1413
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1413
aattccgttg ctgtcggaaa catgaaaaag aaaatgaaga attcacaggg caactaaaag 60
tggctaaaga tgttgaaaaa ctcattggac aagtggaaat ctgggaggca gaagccaaat 120
ctgttttgga tcaagatgat gtggacacct caatggaaga atctttgaag catcttattg 180
ccaaaggctc tatgtttgat gagcttatgg caagaagtga agatatgtta caaatggata 240
tacaaaatat ttcaagccag gagtcctttc aacatgttct cacaactggg cttcaggcaa 300

<210> 1414
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1414
aattccgttg ctgtcggtag actgagatca gtgtgtaggg gtgaagcaag gagtcctact 60
ctgtttgact aaggtaaaaa ttaagaatca gtgagaaatg gaatttgcaa aagtgcctgc 120

cagataatgt tagaactgga ccagaaaata ggagttggta taaaactaga ccagcgagct 180
tttttccctt caagatgcag ttcagtttat tgcttttgta aattagagat tgtgtttctt 240
gatctttatt aaagtagaat acaatgttaa cctacttcaa attttaaaaa atatacacac 300

<210> 1415
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1415
aattccgttg ctgtcggttt tgtacgcacc gttttctctc tgtgctatgg gagatgtcaa 60
ggaatcaaag atgcaaataa caccagaaac tccaggaagg atccctgttt taaatccttt 120
tgaaagtcct agtgattatt ctaatctcca tgaacaaact ctcgccagtc cttctgtttt 180
taaatcaaca aaattaccaa atagataaag atgtggaaga caaaagacaa aaagccattg 240
aagagttttt cactaaagat gtcatcgtac cctctccttg gactgatcat gaagggaaac 300

<210> 1416
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1416
aattccgttg ctgtcatgct gaggttgtta aacaggcccc atgtagctgt ccccacattg 60
gggtttgctt tctacttccc aggtgtttct cagcgtgaga gtttagtttg ctttgtgctg 120
ctggacaggt tcctgcagaa tggcctgttg tacgagtttt aagaatttaa atcccattac 180
acagccctga cttcttattt gctagttctt tccatcattc atttatttta tccacttgga 240
gttagtctgt ggctgccatg tgtttgtcag gtggcagagg atgagagatg gatgaaaagg 300

<210> 1417
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 1417
aattccgttg ctgtcggcaa gctcgggggt caaaccgaaa catgcaattc actaaaatct 60
ttcaggaaaa aatgacttta aatactgtca tcataatccc actttgtacc tccttctctt 120
ttcatatcca tgctcaagtg gaagttaaca aatccctgcc cccagagagc tgcccaaagc 180
atcacgtttt agaaactgtc ccagaatttc caaactcatc caaaagcaag tgacatcaag 240
tcagatattc ttggtgctag aaactcagaa aaaaaaaaaa ngggggtc 289

<210> 1418
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1418
aattccgttg ctgtcgaaaa catattagaa ctaacaaact tacaatggac atttaatagt 60
ggttttcctt tctattctat tttttaaaat gtaaatggag taaatgataa aatgtagact 120
gaatttatca taaagacatt ttcttttggt atactgcaag gaactatgaa cttttagtaa 180
ctactataag caactgacag gaaaaaatgg caacagaaga aggaaagagg agagaatggg 240
gagcagacac taaggtgtag tgaaaggagg aaaatgaagg ctaagtctaa tgatgtgaat 300

<210> 1419
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1419
aattccgttg ctgtcggctg aaaatgaaag cagacctaga agaagtccaa agtgcccttt 60
acaacaaaga gatggaatgc cttagaatga ctgatgaagt cgaacgaacc caaactttgg 120
agtctaaagc attccaggaa aaagaacaac tgagatcaaa gctggaagaa atgtatgaag 180
aaagagagag aacatcccag gagatggaaa tgttaaggaa gcaggtggag tgtcttgctg 240
aggaaaatgg aaagttggta ggtcacccaa aattttgcat cagaagattc agtcctagtg 300

<210> 1420
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

<400> 1420
aattccgttg ctgtcgaaag ccgattcatg tactgatgcc aatcagctag agcaatgtag 60
gctttttttta atttaaatta ttactacact ttattactac acttgcagaa aagaaacatg 120
ttaaaatcat ggcacacctg cagaatttna tatgacagag tgnncanatc atgtattcnt 180
gnntntanaa tancnttntt ncnctacntc ttntntttcc tnanannata tctantantt 240
nttnagtctn tnnttcnana aat 263

<210> 1421
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1421
aattccgttg ctgtcgcagc cacaaagctc ctgcccatgg ggcgctctga ggggcagact 60
gcctgttggc ggagtcttgt ggggtggaaa tggtgaggtc actgtgatgc cactttgctt 120
agtcatcggc cacagggtca cctggagaag agcatgagct cagcataaaa gcaaggccca 180
ccctgcaggg gccagcagct gggagctgtc cactaaccac tatccttgca gctggacagc 240
gaggcccctc caaaaggccg tctccacctg ccaccgggaa aggacccgga gcgaaggatg 300

<210> 1422
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1422
aattccgttg ctgtcgatta tagccttcta taaaacttat aaaacttgct tgtaaaattc 60
catatagaga ttgcaactga gagttggtcg taaaactaaa aatattgttg ggaacagagc 120
aggtcaaaac tcccatgatt gatctaataa tggaattata ctggtaaaaa gccactgcac 180
ttcagcctgg gcaacatggc aagactctgt ctctaaaaag agacaaaaca gcataaaaat 240
atgcttgata taaactctag ccctcttcta gttatttgtt catttgtaca ttttcatttc 300

<210> 1423
<211> 274
<212> DNA

<213> Homo sapiens

<400> 1423
aattccgttg ctgtcgagac tttgatggtt atgaatggaa ccaagttact gagttagagc 60
attttctaat taaatatgaa ataggagctg aaggcataat ttattgatta gaatgacaga 120
aaatgttttt atgctgtaca tgccttttga acatttttca aaatacttgt aactttgaag 180
aaagtgtgta tattgttaga aggctgtaag gagagcaggt ctctgctctg gtggtgattt 240
tactcaagag gggatgtgaa tatttatatt tttg 274

<210> 1424
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1424
aattccgttg ctgtcggaga aacccaacac atgtaaggaa gattagaatg tatgcaattt 60
tcctagttcc cttctaaaac ttagaaggac ccgtcctggg aaagaacgtc ataaaatacg 120
aaaaatgtgt tagaacactt tattttccca gccgctttca aatatatttt tatcagtggt 180
tcattgttaa agaaggtgtc tatactttag attttcagtt ttttgcaggg aatcatggag 240
ctgagaattt cacagatact ttataagcca tagtacatga gcttaatagg ctgtgttttg 300

<210> 1425
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1425
aattccgttg ctgtcgatta tatgccacct gggtttacag tgtagtctct tatcaggtag 60
gtttgttctg agatgtatag taatgatgac tttcttcttc gcccaagtat tttgtgtacc 120
ttagaccagt ttagcaaatg aagtccaaga actatttgaa taagtcattc ttagaaaata 180
actttaggaa gcaactgact ccattcatgt gtatgcctct aattgtaggt tcacttctgt 240
ccgaatatga atttttaaaa taattttagc attatattag caatttgcaa tataccattt 300

<210> 1426
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1426
aattccgttg ctgtcgcaaa aggggaaaaa agtccaggtc agcataagtc attttgtgta 60
tttcactgaa gttataaggt ttttataaat gttctttgaa ggggaaaagg cacaagccaa 120
tttttcctat gatcaaaaaa ttctttcttt cctctgagtg agagttatct atatctgagg 180
ctaaagttta ccttgcttta ataaataatt tgccacatca ttgcagaaga ggtatcctca 240
tgctggggtt aatagaatat gtcagtttat cacttgtcgc ttatttagct ttaaaataaa 300

<210> 1427
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1427
aattccgttg ctgtcgctgt cagcgtttta gctgatgaag aattcccttcc cttcaaagaa 60
aatacatttg acctggtggt tagcagttta agtttgcatt gggtgaatga ccttcctaga 120
gcacttgagc agattcatta tattttaaaa ccagatggag tgtttatcgg tgcaatgttt 180
ggaggcgaca cactctatga acttcggtgt tccttacagt tagcggaaac ggaaagggaa 240
ggaggatttt ctccacacat ttctcctttc actgctgtca atgacctggg acatctgctt 300

<210> 1428
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1428
aattccgttg ctgtcgctca actgaccgtt ggatttgcaa tgtggacctg aagagtaatt 60
gtggtgaagt tgtgagaatg aaactgaagt gggttcaaga aagaacgaga ggagagaaag 120
tggagtttga gtataaataa ctcttttgga gaggattggt gtaattgaat ggcaggggta 180
tgagatttga ggtcaaggaa atatttttat tatttttac gatgagagaa attgtagtac 240
acatgtatat ttatgggaat gactcagtag aaagaccaaa aatttcatat gtgagagaag 300

<210> 1429
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1429
aattccgttg ctgtcggcag aggggagaag gtgtcccagg aggagccttc ctggagggga 60
tgatagtcca gcatgttctg aagtgggagt agggtgcggc aggagtaggg taccagagaa 120
tgagtgagtc aggcagcagc ctccactgcg ccttggacac aggtggctga cagtgtccac 180
ctggactggc tttgcacccc ttctgaggtc acagttgtgt cccttgaaaa cttgggcagg 240
agcacctgac tggcccagct tgggtcatcc ctaggcccag cagtgcggga ggccaggaaa 300

<210> 1430
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 1430
aattccgttg ctgtcgcact gatttactcc ctctcttccc cactccctgt gaggctgggc 60
tgaggcacgg atccctgggc cacagagcaa gtctccaaat cagacagctg cctcagcccc 120
tgggatgtgt gatttcagct cctgtcacct catgcaaggg cgtggagacc agtagaggtg 180
tggaggccag gcagagagag gagcctgctc tgaggggtgc ccannntnat ggncactgtc 240
cnttcannta gcctgnctan gnccccctgag 270

<210> 1431
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1431
aattccgttg ctgtcggtaa tgtttcactt cttgaaccat gtaccaaatt tgccaatttt 60
ctgtccaagt gtttcagatg aataacaaaa cgctgttcat tgaagctttc gccacctttc 120
ttaaagcagc gtatgttcca agggaaaaag gcattgaaaa gcaatcgttt gtttttatga 180
agaataggtg ttcagattcc ttcagttttt ttgaaattag aaatttctta ccttatgtga 240
aatattcaca aacgtgcaca cttctgcaga gacaaagcat ttcactgcac gtgtaccagg 300

<210> 1432
<211> 300
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1432
aattccgttg ctgtcgaagg aattctgtgg ctgtgctgcg tttcagaaaa taacccccag 60
aggccttggg ctgtggacct gggggttgga aggatggggg ctcatttaac cctcagaggc 120
agcgcctttg tctgtctatc tggtgacaag agagagacaa gtaaatgggg gccgttggga 180
cggcgggtgc ctggagggca gctctgggct catcgggcag tgcttagagc acaggcccct 240
ctgttggggg atggggagga gagcagtctg cccttgggan cgtatgcccc anggagactt 300

<210> 1433
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1433
aattccgttg ctgtcgggct gactcctgct tttttggagg gtttaacttc tctctcagct 60
agaaggttag gcattgcaaa taccagtgga taattttttt cttagcttta accccagccc 120
atttcaaccc cctctttgcc ctttgtatat tcttttgaaa atatgatcca gtagtgttta 180
tgaatgtgtg ttgtgtaaaa tttagagatt gatgttaaac aacagaatta aaggacaaag 240
ctgtcttttt tgttggaatt ggggatggga gagcagctca aagtgggaaa tatggagaaa 300

<210> 1434
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 1434
aattccgttg ctgtcgcttt ttacaaagaa aaatggaaaa actttgtatg gtagcttcat 60
gttgaagtgg ttttttgttt ttgtttttgt ttttttaatt tgtaaaatct ggaaagttag 120
cttgttctaa taggggctat gctctgcaat tccctttttt tttttttttt ncntnccncn 180
aagcnaaacc ntnannaaan nntngnggnn tnnaanggng ggccgnnttt tccnccngtn 240
ggnatnnnan ntaaggggnc nnngnaaaac caaancncnt ngaaaancnn nggagggcc 299

<210> 1435
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1435
aattccgttg ctgtcgggta ctgtgaatgg agagcttcag ctaagaggag gctctgtccc 60
ttttcagagc caaaggaaat aatacaacaa aaaggaggct tctttggaga cctaagtcta 120
ttggatgtaa acaagacgtt gtatttaggg atgttctgtg tttctttctt ttttgaagtt 180
gtcatcaatt gctttactaa gattttaaa tagtgaaaac ctcctgttta gactttggtg 240
gaagatgaat caaggaagca gggccctgtc ttatgggtca cgtgtctttg gtgagtgaga 300

<210> 1436

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1436
aattccgttg ctgtcgattt tatatgtttt ctcctatatt tcttgttttc atccaggact 60
actagattcc agtaagaata aaattaaaca ttagaggttt gtcttccatg ttgtttaaga 120
aaattagttt cccttttttaa ataattacta atatttgaag attatgaatc ataaattaat 180
cacaagtgcc atacctatta ttttagaagc aattgagcaa tataaatggt cttcagtttt 240
accagttctt gatctgtagt aaattccagg ggtggtgggg tctgtgaaat aatgaagaaa 300

<210> 1437
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1437
aattccgttg ctgtcggtca aatttcatca ggtaagaagt gctaaagtga acctgtaaac 60
tttgtttcaa aaaacaaaaa ccgaagttta agaaatctaa agatggtgtc agccttagac 120
agatctctgg actgtaatct gggaaaggtc aaataagatc tccaatcgtg tacaattcca 180
aatacatttg agagcagtgg gtctgaaaat gtggttccca gaccagcagc atcaacacca 240
tgaaggaagt tgttaaaaat gcaaattctc aggctctccc ctgtgcttta ataaagtttc 300

<210> 1438
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1438
aattccgttg ctgtcgcaaa aaggtacagt gattcagcca tttccatttg tcatttgttt 60
caaccttttt taagttgagt gtttttattt ctgcagttat tagttggatc ctccacatct 120
tgcatatata catgggctca attattatgt ttgtcaggat aatcaaatga aaatactagt 180
tcagtgatca gcattgaatg gttgttaggc agccatgtgc tcaacactga tttcacctct 240
tgagtataaa ctttttaaat ttaaattggt ttacatgaaa gtggattaaa aggcctttca 300

<210> 1439
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1439
aattccgttg ctgtcggaga gtggaggcca gagaagacca aagctgagga atgcgacctc 60
aggatttcct tctttctggg gatagttctc tttaggagga agaggagtta gcccctcact 120
tgcttatccc tctcctatgc tctggagttc ctctccaccc ttgcccccac cccacattgc 180
cccctcctgc tcggtcagtg cctggccagc tcaggcagct tgcgtcacag taaggtaaag 240
ccagaatgag nattangnct gagcganant gnaaaagcca ttcctntgac cctacccacc 300

<210> 1440
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1440
aattccgttg ctgtcgcttt tttggcaagg aggacaaata cgcaatgttg gaaaaccttg 60
gatggatatc ttctctttaa aaaaatgtaa agataatttg gtcttgaggg tttaaacggt 120
tgataatgcc tctacaacaa caagaaaaaa gataaaatac taggatagaa tcatggtggg 180
cacagtggct tctcaggagg ctgaggaggg aggtttgctt gagtccagga gttggagacc 240
agcccaggca acatagcgta aaccctatct ctaaaacaat ttttagccag gtgcggtggc 300

<210> 1441
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1441
aattccgttg ctgtcgtcag atttctgatt tgaaaagaat gatttcaaaa cttgaagctc 60
aggtcaagca agtagaacat gaaaatatgt taagccttcg tcataattct agaattcacg 120
tgagaccctc gcgtgccaac acactagcaa cttcagacgt cagcaggcgg aaatggctga 180
ttccaggtgc agagtattcc atctttactg gccagcctct ggacacccag gacagtaacg 240
tggataacca gctggaggaa acctgtagcc tagggcaccg ttcacctctg gaaaaggatt 300

<210> 1442
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1442
aattccgttg ctgtcgaccc caaccctctc tcatgttcag tctgtctaat acatgccaga 60
gatttttttt tcaaaaagtg ctttatccct acaatgtact gacagttctt acagttgaga 120
tttgttcttt tcagctattg cttgtgaaaa aaagcaagac tatgtcactc tatagaaggc 180
tgttaaagtg actcaggcag gaattaatta ttctgtacct aaggggttac ttgtttaatg 240
ggatggcatt gactttttga aaatcaagtg gactgagtca ttgataaaac atttctaaga 300

<210> 1443
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1443
aattccgttg ctgtcgcact gaatgactta aggctcgaca aatgatattc ttggaaagtt 60
taatcttgag gttttcaaat cttttttttt aatgtctccc atgtttctca tttgctgatt 120
gattcattag ttgctcttag taagatttgt cagttggaaa taatgaaggc tgagactcat 180
ttctaaactc ttccataacc atcaccagaa gagcagccac tgtgttgtgt gatgtaggct 240
aatgcctccc agatagaggt aaagtcacaa ggactattag aattccagtg gattgtggaa 300

<210> 1444
<211> 245
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(245)
<223> n = A,T,C or G

<400> 1444
aattccgttg ctgtcgggaa gacagcccag aagcttgcta ttcagaaggc tttgtcagat 60
gcattccaga aactgttgat tgttgttcta gaaagtggta aaatagctgt ggagtacaga 120

cccagtgaag acatcgtagg tgtcagatgc gaagaagaac tacacggttt aattcaagtc 180
ccttgctctc cctggaagca gtatggccaa gaggaggaag ggtatctctc ggatttcanc 240
ttgna 245

<210> 1445
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1445
aattccgttg ctgtcgatac cacctccttg cttggtatct tttacaaaat gttatacttt 60
atggatataa aggtgataaa gattggaaat aaatcttcta aatatgtaaa atgaaagcaa 120
cagcaacagc aaacacaatt atcgtattct ttgggagtaa caaatactgg ttttcatttt 180
aaaactaagg aaaattttat cagtacttaa attcaatcca aaaaaggttt tataacaccc 240
aaactgtaca tttaaaatta tgctttctta aggtaatggc tagcattacc tagtttgtag 300

<210> 1446
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1446
aattccgttg ctgtcgatat tgttcaataa tgtcctttca tttgtttctg attggtttca 60
tcctgatact gtagttcact gtagaaatgt ggctgctgaa actcatttga ttgtcatttt 120
tatctatcct atgttaaatg gtttgttttt acaaaataat accttatttt aattgaaacg 180
tttatgcttt tgccaacaca tcttgtaact taatatacta gatgttaagg ttgttaatgt 240
acaaaaaaaa aacccttata ctcacctgcg tttccatttg tttgacattt gtctattatt 300

<210> 1447
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1447
aattccgttg ctgtcgggct gacgtgaaat gtaaactagt aggcgtgtta ttgatctgct 60
aaaactaacc ctctttttaa gaggagattt aaggaagacg tcaatcaaaa tgtcaaatat 120
gtgtgtcaga atataaataa tttttcacat tgtattgttg ctatataaaa aaaataatag 180
aattggttgg gtttctgagg tgaaatccag agtaagagta ctagacagtt caacaagcca 240
catctaatgg cacagataga ggatgtagct attttatacc tttcataaca tttgagagta 300

<210> 1448
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1448
aattccgttg ctgtcgacta ttaactaggc ttcagtatat cagtgtttat ttcattgtgt 60
taaatgtata cttgtaaata aaatagctgc aaacctagtt aatagtagtg taacaatatg 120
catcattttg atgattacat tattttaaac aacaaactac actgaaaaat taatgccgat 180
aaaattctgg gggtgggaag gtaggatgtg gagtgacatg gttctatcct ttacttatga 240
gactcagaaa tatatctaca aagccagatg ctctgtcttc atatttgcag acatctagac 300

<210> 1449
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1449
aattccgttg ctgtcgattt ttctatgtat gtgatgtgaa atgaagacta tatatatgga 60
atggaggtga cagaaagaaa gaaattcttt gtttgaggga gacttcccct ttctggattg 120
tatttgtaga gtgttacgag tgtatcatgt gattatgctt taccggtata agagattctg 180
ttgngattat ttgaatagtt ntatattaat anaagaagac aaaanttttt aaatgttana 240
aaaagcngat ctgtcattgc tnngtatcnt aaantttang cttttatcna tgtatatttt 300

<210> 1450
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1450
aattccgttg ctgtcggctg ttcaacatta cttaatgact tgaaaatatt ttttattagt 60
tgtagaaaac tcaacaattt tcaaatattg ctttggctac attcaccttc attcctctgg 120
gattccactt aacatttatt aggtcttttt gcttaattcc ctatgtctct tctatacttt 180
cctgtatttt ctactcttgt gtctcccttc actccaagaa tttacttctt ttttgtttgt 240
ttgtttgttt ttgagacagg gtcttgctct gtcgcccagg ctggagtgca gtggcatgat 300

<210> 1451
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1451
aattccgttg ctgtcggaaa cctcaacaga cactgccgta acgaatgaat gggagaagag 60
gctttccacc tcccccgtgc gactggccgc caggcaggag gatgcccccca tgatcgaacc 120
acttgtccct gaagagaaaa tggaaaccaa gacggagtcc agtggaatag agacggaacc 180
caccgtgcac cacctgccgc ttagcactga gaaggtggtg caggagaccg tgttggtgga 240
ggagcggcgt gtggtgcacg cgagtgggga tgcttcttac tcggcgggag acagcgggga 300

<210> 1452
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1452
aattccgttg ctgtcggtcc cacccccacc tcgccggagt ccggggcggc cccggtgtcc 60
cctccgagcc tgctgcactc cacgtccccc taccagggct ccagccccca gggaaatctc 120
cgaccaggcc cgcccaggag ccagatccag gctcctggaa gaaccatgtc cggcagctac 180
tggtcatgcc aggcacacac tgctgcccaa gaggagctgc tgtttgaatt atctgtgaat 240
gttgggaaga ggaatgccag agctgccggc tgaaaattac ccaaccaaga gaaatctgca 300

<210> 1453
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)

<223> n = A,T,C or G

<400> 1453
aattccgttg ctgtcgaaat catgtacaga attgcaagag acccacggag aattatctac 60
caacaatatg catcatagaa atttagaaaa cagaagaaaa gtcactacag tcctaccact 120
cttactgtta cggtattaga aatatatata gtggatagcc ataagtataa atgatcncat 180
atagcatgtn ttttataaaa attggtttat actgtacatt ctatcttgtg angngatgnn 240
tttcacntgc cactgtatca tgcccatttc cctctntctg ctgtctgtat tcttcttgat 300

<210> 1454
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1454
aattccgttg ctgtcgggaa aactacaggt gttgtccaag ctcttagcgg ttatccacga 60
acttcgacct actgaaaagg tggtgttggt atccgactat acacaaacct tgaacatttt 120
acaagaagta tgtaagcgtc atggatatgc ttatacaaga cttgatggac aaacaccaat 180
ctctcaaagg cagcagattg ttgatggctt taacagtcaa cactcttctt tttttatttt 240
tttgttaagt tcaaaagctg gtggtgtagg acttaacctc attggaggat ctcacttaat 300

<210> 1455
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1455
aattccgttg ctgtcggcaa aatagtattt tctattactg tgcaggggaa agggatggat 60
cgatacatgc aaatttaatg tagtaactca cttttccata tattttgaat gtatatttct 120
atttatgata ccaatttata aaaaataatt acacagaaaa aatggaatag gaaaaattat 180
gcatctagca catttaaact gtgcaaatat gaaaattttt cgaggattac atttatctg 240
aaggctgcat attttaactg gctttaaaac tgtaacacat cacataaaag atactttacc 300

<210> 1456
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1456
aattccgttg ctgtcgaaga aaattttcta tgattataat attccaagta agtttctctt 60
ttgagatcat ttgtctattg taggaagtca ggtaaataag tttagtttta aaaaacaaaa 120
atttctcaaa tcaggattct ttctgaccct ttaatctcag ataatgataa tagagtatta 180
tttcaaggat tccccttcta gcacaatctt gctcaagatc aggccaagaa tatagacagg 240
ttcagtaaac cacaagtgct ctaaacctgc ttgaacctat gtaagaactg agcagtgggg 300

<210> 1457
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 1457

aattccgttg ctgtcggtag agacgggttt ctccatgttg gccaagctgg tcttgaactc 60
ctgacctcaa gtgacccacc tgcctcagcc tcccaaaatg ctgggcttac aggtgtgagc 120
tactgcgcca ggcctaatat cttttttttt tttnnaaana aagnntngtt tngggcccag 180
nnngaagtgn agggggnaaa tttnggntaa tngaaccntc ngcntccnng gttaaaaaaa 240
ttttcnngcn taaccntcnn ganaannngg aannacgggn tngcccnaca accccaa 297

<210> 1458
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1458
aattccgttg ctgtcggatt tttttttct ccagaggctt agcgtaggtc ataccccaga 60
tgttgatgat gaatatattg attgctatct cagggcgaaa tctcaaaagt ttgtgttgcc 120
cttttaggaa tttcacagtt tatattgacc tataaccaag aggcaggttc attatgttta 180
attgcattaa aagataaaag aagtagacaa attgaaagga aaaagagccc agagattggt 240
acctttttat caagcnacan catgccacaa actttgcata cataaaaaat aataacctga 300

<210> 1459
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1459
aattccgttg ctgtcgctct acttttaacc agtctcataa aatgcctggg gttcataggt 60
gaagctggat tgttgcagga attctgcaat tgttggcaaa gcgaagggca gtttgactcc 120
ttaattataa agttggatgt catttgagaa actctgggaa ttggaagtag aacaaattca 180
tactttccct ataactttta atttcttgtc atacattcag aaaacaagag atgtaaaatt 240
cataaaactg cttgtataaa ttcagaaaac gggattataa aagcaaagac aaattgtctt 300

<210> 1460
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1460
aattccgttg ctgtcgatat aacccaggaa cgtgacagtc ttatgtgttt ggcaaaatgt 60
ttagaaagtg agaaggatgg agtgcttaat aaagtcataa aaagcaacat tcgcctggga 120
aagttagagg aaaaagtcaa gggctacaag aagcaggcag cactgaagct gggggacatc 180
agtcaccgtc tgctggagca gcaggaggac ttcgccggca agacagccca gtaccggcag 240
gagatgcggc acctgcacca ggtgctgaag gacaagcagg aggtgctgga ccaggcgctg 300

<210> 1461
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1461
aattccgttg ctgtcgcttg caccgtgtgg acagactctc cggttctggg gaaatccagt 60
ccctgttact ccattttggc cagaaattca aggatactgt catgaagcag acacatgctg 120
acacacctgt tgatcattgt ctatctggca taagaaagtg tagcagcacc tttaagctta 180

aaagtgaagt caacaagcat gaaacagccc ttgaaatgca gaatccaaat ttgaacaata 240
aagaatgttg tttcaccttt acgttgaatg gaaactccag aaaattagac cgtagtgtgt 300

<210> 1462
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1462
aattccgttg ctgtcgctgg cttcctcagc attgccgaga tgtacagctc tgtggcagac 60
cagtggtgcc tgattgtccc catgcacacg cgcaggagcc gggtctccct ggtggccagc 120
tgtgggcgcc tctacgctgt tgggggctac gacggacagt caaacctaag ctcagtggag 180
atgtatgacc cagagacaga ctgctggaca ttcatggccc ccatggcgtg ccatgaggga 240
ggggtcggtg tgggctgcat ccctctcctc accatctaag gcagaggatg ggatgtggtg 300

<210> 1463
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1463
aattccgttg ctgtcggaga tgtactgtgc ttatggatat gaagactcaa taacatgtca 60
attctccaca agttaataaa tgtataaatt tacttcaatt gaggattttt tattagacat 120
agacatgctg attttaaaat tcaaatggag gccaggtata gtggcttacg cctgtaatcc 180
cagcactttg ggaggccacg gcgggaggac tacttgagcc caggagtttg agactatcct 240
gggcagcatg gtgagacctc atctctacta aaaatacaaa aattagccag gcatggtggt 300

<210> 1464
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1464
aattccgttg ctgtcgctct gtttctctgg ctaatgtatt tttatcacac ccaagaaatt 60
taacgtttat aagatgtaat catttaatat accaaccatg tgtatactgc ttcagttgct 120
cctcagattc ctgaatctaa tcagatataa cactttgcat tttgtttacc ggtctctcta 180
gtcttctgta attttcccag ttttttccca taatactgat ttttttttca gcattaaagc 240
tagctctctt gtagagtagt ccacagtctg aatttatctg attgtttcat gattagattc 300

<210> 1465
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1465
aattccgttg ctgtcgaaag gttacattct ttttggttca tctactcaga agctatttaa 60
tgaatgttca ctccatgtca ggcatgtggc atgttttcat ctctaccagt aacgctgaac 120
tttcttcttg tgtgcatcag cctgttgttt tcttttgtaa atgttctgtt cgtgtccatt 180
atcaactttt ctactagggt gtgactgttt ctatgatata tttataacga tgtgtgtgtg 240
tgtgtgtgtg tatacgatat ttggggtaaa tacttttccc agcttctttg acttttaatt 300

<210> 1466
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1466
aattccgttg ctgtcggcgg caaattgtgg aacagatgga aaagaaccag gaggagcgat 60
cgctgcttgc tgagcagcgg gagcaggaga aggagcagat gctggaatat atggaacagc 120
tccaagagga agatctaaag gacatggaac gaaggcagca acaaaaactg aagatgcaag 180
ctgagattaa gcgcatcaat gatgaaaacc agaaacagaa agcagaactc ctggctcagg 240
agaagctggc agaccagatg gtgatggagt ttaccaagaa gaagatggct cgagaagcag 300

<210> 1467
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1467
aattccgttg ctgtcgcaat ttctgagtct ctttctattt aatgccacca atttctgagg 60
aactagagtg cagagtggat tgcttttcag ctttttctat taggattcag atagcttttt 120
aattgctgct aatatatttg tcattcatat tgcttttttg ttttcaaaat tcagttaata 180
tttttcttc tcattcattt tgactttgta ggttcatgcc atttgtaaaa ccctctttgt 240
tgtcttttta ttggaatttt gagagggagt taaatgtctg tttttaatct accatcttta 300

<210> 1468
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1468
aattccgttg ctgtcggaca gcagctccga ggtcggcggg ggtctgggtg gccatggagg 60
agccccctgt gcgagaagag gatgaggagg agggagagga ggacgaggag agggacgagg 120
ttgggcccga tggggcgctg ggcaagagcc ccttccagct gaccgccgag gacgtgtatg 180
acatctccta cctgttgggc cgcgagctta tggccctggg cagcgacccc cgggtgacgc 240
agctgcagtt caaagtcgtc cgcgtcctgg agatgctgga ggcgctggtg aatgagggca 300

<210> 1469
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1469
aattccgttg ctgtcgccaa aatgtatccc agtaaagggc tttggtaaaa aatataaata 60
atttgaacaa gtgtccagag gggagataat gtacagaagg aaaaaagaat aatgggcttt 120
taacttcttt tttttccctc agtttttatc tttttcctat atagagatgg gagtctcact 180
atactgcgca ggctggtctc gaactctctt gggctcaagt gatcctccca cctcggcctc 240
ccaaagtgct ggagttacag gcttgagcca ctgctcctgg ccagcttcta ctttaaacct 300

<210> 1470
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1470
aattccgttg ctgtcgacga gcttttgctg tgttggccag actggtctca aactcctggc 60
ctcaagtccc aaattgctgg gatttaggca tgaaccacta tgcctggcca taccgtacag 120
aaacactctt atggtgtatg tatgcgtcta tttggaactt agttttgtag tctttttta 180
aaatcatact ttattatagt accttgttat cattttgaat atgttaaatc aacactataa 240
tagttaaggt agacagaaca ttaggacata ccgtattcta tattttttcc tctgtatttg 300

<210> 1471

<211> 292
<212> DNA
<213> Homo sapiens

<400> 1471
aattccgttg ctgtcgtaat cttaaaaata cttgcctcaa agatttattg ggataactaa 60
gatctgtaat acttggagat aggaactatg tcacatagtg catgacacat gaaaggcact 120
taatattcat tgaattgaat taaatctcac agatttaaat aaaaggcctt tgccttaatg 180
ttcaactttg tatttggtat gaggtctctc tgtctccctt caattaaatg atatttagag 240
gtatgctcac aatagattag acatagttaa tttttttttt tttttttttt tg 292

<210> 1472
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 1472
aattccgttg ctgtcggttg agtcataaaa taaaaaaact agcaaatcca gctctatgct 60
cagagaatta ccagaaaata aaattacatg aagcttgaat atagggagat ggaaagatat 120
tagacaaata ttaaagaaaa tctgggccag gtgtggtggc tcacacctgc aatcccagca 180
ctttgggagg cccaaggtgg gaagattact tgaggcaagg ggttnganan cngcctgntc 240
ntnatannga anntnngctc ttnanannag antgngntna ntagagtaat taa 293

<210> 1473
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1473
aattccgttg ctgtcgtata tgccaagaac caaggtgttc tgtcatcaaa attgattttt 60
tatgtgtgaa ttgacaactt gctaaagtcc cccaaatttg ttgtttctaa agaattggaa 120
accatttgag aggagctatt gtaagagggg acttcagcct tgatcattag ccgtcaggag 180
ctctccctca ggaagatcag atttaacagt ttttgagaaa cttgagattc tgaaatgctc 240
cacggcctgc ttaccctttg gaaagactgt aaggggtaga agtacccaac agaagaccac 300

<210> 1474
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1474
aattccgttg ctgtcggttt agcactcaca tatttttgtt caatctttac ttctcacaca 60
aacagaaaaa ggaaattata tattctgtat caacaaagat ttaacaaaac atccatacac 120
tacaactgtc tacttactaa aattaagaat tagtatatta tctttttctt tcttatatta 180
aaactatctt ttcatacact attttaagtt tatgaactga aagtctttta gagataattt 240
acttcaatga actattatta tttatatttt ataagcaaat tgtcacaact tggtattagc 300

<210> 1475
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1475
aattccgttg ctgtcgcatc tgtatgttgt ggtgtcatag aaagagtcca gacctggagc 60
cagagggagt tgaattcaaa caccttgatt tcttattatc agctgtgtca agatcaaatc 120
actcctcttt ggcatgctgt ttttttctag aagtattact cttgccttag ctattaccat 180
cccctctctt gcttgtaggt tgatatttac ttgctaattc actctcagtg cattgttttt 240
gaatcttagc ctagtttttt gtttgtttgt ttgtttgttt tgacagtctg cttactgcaa 300

<210> 1476
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1476
aattccgttg ctgtcgggac tacaggtgcc cgccaccaca cccggctaat ctttgtatta 60
caggatagag ttcttggaag cctggcgtgg agggagggag agcaggtagc acagttacag 120
aaggatcttc gggatatgga aatgcggtat ttgtggacac tcattcatct aacacacatt 180
tgttgagctc ctaatgtgta tagaactgaa gggatggagt catgggcagt ggaaaagctg 240
aaattgtgta aaagagagag aaggatcagt ggctatggtc tcgaagatga cgtggaagtg 300

<210> 1477
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1477
aattccgttg ctgtcgaagg gatccagtaa ctgctcccag ggaaaggata tcagcttgac 60
ctgcagctga cagctagtag taactgtaag ccacatgagc gaacaatcta ggccatccag 120
cccagaagaa cattaagatg actgcagctc cagccaacat ccggctacag caacctacga 180
gaagccaaat aagagcagcg tagctcagtc ctcccagaat ttgggaccca gaaaataaaa 240
gggaaactaa acaggtaaac aagttgttgt tttacaacac tgtgtttgag agtaatgtgt 300

<210> 1478
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A,T,C or G

<400> 1478
aattccgttg ctgtcgcgta gtgtggtttc cgggctccga tgaccccagc cagaaccccg 60
cctttgttca tgcctagggt agaggcataa agttcagcac agccacaggc cacaccttgt 120
tatgggcctc agaagccatc tcctctccag acctgtacca caaagctcct aatgtaacac 180
atcattgtcc tcattcaact tggctgtatg ctattggagg gtggaaatca catctcctgt 240
ttatccgtgt gcttgttagg tgtcagccgn cacccccccc ccatatgc 288

<210> 1479
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1479
aattccgttg ctgtcgagaa ccttgtggtc atcaataaag ccctacggtc tccctgtgca 60
tggtggccct ggggtccagc tctgcatcac tgatgtacta cctatcctgg caaagatgct 120

tcatggccac aaggcagagc ccttgcatct gtgccaccgg ctggacaagg aaaccacagg 180
tgtaatggtg ttggcttggg acaaggacat ggcacatcaa gtccaagagt tgtttaaaac 240
ccgtcaggtg gtgaagaagt actggtatga ggcctgctga tggcagtaga ggtggtataa 300

<210> 1480
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1480
aattccgttg ctgtcggaat tccattggcc agaacatagt cacatggtca tgcatatgag 60
aagtaaaatc ttggaaatgc actttttata caggatgatt atttgcccag ccgaaatgta 120
gggtttccat tattatcaaa gaaaaaagag cagaatagga gatagctaca agtctctatc 180
tcttacagaa tgtaagtcag acacatcact tgaggggctt aaaattttta acatttcttg 240
atgctttatg cttatcattt gtaatggaag atttgtatgg tggtagcctt ccataaagac 300

<210> 1481
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 1481
aattccgttg ctgtcgagac ttttgtatat ttatcttaaa ttatatatct gaagtttttt 60
ttttttttant ggnagttnag gcttccagng ccntatcagn ctttatataa atcngtngaa 120
naatcgtttn ttntaaaatc aaagtaaatt tntngnncat gttnaaggag ngaaaaggaa 180
tttgggnata tgnaattttg ctagnnctta nggcttcnat ctaaaaangt tnatgangga 240
ccaggcncgg gggctnatnc ctgggatcct ancnctttgg gaaacccagg cggccgga 298

<210> 1482
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1482
aattccgttg ctgtcggccg ccccaggggc cctgggagct gcagggcata ttgctgctga 60
gccagaatga gctgtaccgc cagatcctgc tgctgatgca cctgctgccg caagacctgc 120
tgctgctaaa gccctgccag tcttcctact gctactgtca ggaggtgctg gaccggctca 180
tccaatgcgg gctcctggtt gctgaggaga ccccaggctc ccggccagcc tgtgacacag 240
ggcgacagcg attgagcaga aagctgctgt ggaaaccgag tggggacttt actgatagtg 300

<210> 1483
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 1483

aattccgttg ctgtcggtac atggtcccac ttttttctt cggtctatta ttggactttg 60
catttccata tacattttag aatcaattta ttccacaaaa agctaccaac aacaaaaaag 120
cctgttggga ttttattgga attgtgtcag atctatagat caatttggga ggactgattt 180
ttagacttgc tcaagtattg gatactttct tttttttttt ttttaaaacg gnntttngct 240
ttngtnnccc aggnngnagg gcntnggcnn tntttgggct 280

<210> 1484
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1484
aattccgttg ctgtcgccca tcactacagt caattttaga acattcatta tccccaaaag 60
aaccctgtac ccattagcag ttattatctt tactttttaa atgcgggaaa taaacctaca 120
tagaaagacc agaaagactt tatgctcttg aactgtataa actgactcca gcctacctgt 180
tgtacctttt gttgttgttg ttgttgttgt tgttgttata ccctattttc tactagttcc 240
cataatacat catttattta attcaggctg ttttcctact tgtgctacaa agtgttatta 300

<210> 1485
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1485
aattccgttg ctgtcgaaat tttccagttc ttttttcagc ttctttattt cctcctaatg 60
gaaacattat ctttaaaagt tgcatatagg aaatatacat attttacgtt tgaacaagga 120
gatttaattg taaatatgaa agccaaagta ttcctgaatg gtcaaataca gcaataaagg 180
cagaagaatt aagatttttc tttgttccat tgtacagtgt aaataactaa gttgttaact 240
gtcaagtcca gttatgtatt ctgtaagttg tgttctagtc tttgactaaa atttatcatc 300

<210> 1486
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 1486
atcgagaact cttactacaa gctncttgtt ctttttgcag gatcccatng attcnaattc 60
cgttgctgtc gccaaaatgg cgcgggtgct gaaggctgca gccgcgaatg ccgtagggct 120
tttttccaga cttcaagctc ccattccaac agtaagagct tcttccacat cacagccctt 180
ggatcaagtg acaggttctg tgtggaacct gggtctactc aaccatgtat ccatagcagt 240
ccaaattngn antntgctgt tnnaatntat nacaatat 278

<210> 1487
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1487
aattccgttg ctgtcgggga gtccttgttg ccatccatcc ctagggggta attttgttcc 60
ctgaggctgc tttctaggga cttctggtcg cttgttttat cctggaccag acctgaaagc 120
agagcctgaa ataaggcctt ctatgcacat catttatgta ggaggtggcc ctaggaagca 180

ggcccaatgc gccatgggaa aaaccagtac cagggtgttt tgctgagttg agcactgtgg 240
tgggcagctg gacatgagcc cactggaatc ttctgaagag cccaagagcc tcttctcagt 300

<210> 1488
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1488
aattccgttg ctgtcgggcg gcaggtgatg cagtttggac ggattgatgg cagtgcgtac 60
attctggact tccagtatcc gttctcagcc gtgcaggcct ttgcagttgc cctggccaac 120
gtgactcagc gcctcaaatg aagagactgg tgtggggagg agagagatgc agagagcctt 180
tggaagaggt cttcggagat gccagaggag ccctctaggg gtccgatgcc tgggaggacc 240
acaagccaac agcaaaactg gaaaagcccg gcaggcccag gagagggcgc tgacctgtgg 300

<210> 1489
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1489
aattccgttg ctgtcggacg gaaaccatgt ttgtggctcg cagcatcgcg gcggaccaca 60
aggatctcat ccacgatgtc tctttcgact tccacgggcg gcggatggca acctgctcca 120
gcgatcagag cgttaaggtc tgggataaaa gtgaaagtgg tgattggcat tgtactgcta 180
gctggaagac acatagtgga tctgtatggc gtgtgacatg ggcccatcct gaatttgggc 240
aggttttggc ttcctgttct tttgaccgaa cagctgctgt atgggaagaa atagtaggag 300

<210> 1490
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1490
aattccgttg ctgtcgcaaa aaacaacaac aacaaaaaaa aactgttaac aatttttctg 60
tctgtgttca tgaggtgtgt tagtctgttt ttggttcctt gtaatgtctt ttttctgagt 120
tatttgctgg ccccttccctt taatttctg caagagtttg tagaaaattg tattacctct 180
cctgaaatat ttgctagaat tcactagtga agctgcctgg ggctggagtt ttctttaata 240
tagagctgtt cagatagtct gtttattctt ttccgtttct gaaagtttgc atcttttaag 300

<210> 1491
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 1491
aattccgttg ctgtcgtgga gatggagcgg atgatgcagg cgggcactcc catgggcatg 60
gagtttggtg gaggccgggg cctcctgagc cctcccatgg ggcagtctgg gctgagggag 120
gtggacccac ccatggggcc aggcaacctc aacatgaaca tgaatgtcaa catgaacatg 180
aacatgaacc tgaacgtgca gatgaccccg cagcagcaga tgctgatgtc gcagaagatg 240
cggggccctg nngacttgan gggcccca 268

<210> 1492
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1492
aattccgttg ctgtcgaacg tcttgaagaa tagtgaaaag tcaaagtttc aacagcatgt 60
gcctttccgg gaaagtaaac tgactcacta ttttcaaagt ttttttaatg gtaaagggaa 120
aatttgtatg attgtcaata tcagccaatg ttatttagcc tatgatgaaa cactcaatgt 180
attgaagttc tccgccattg cacaaaaagt ttgtgtccca gacactttaa attcctctca 240
agagaaatta tttggacctg tcaaatcttc tcaagatgta tcactagaca gtaattcaaa 300

<210> 1493
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1493
aattccgttg ctgtcggtgg agtggtccgg ggatggcagt gggaccctgc agaggagtgg 60
ctctcttggc aagatccggg atgtgctccg cagaagcagt gaactcttgg tgaggaagct 120
ccaggggact gagcctcggc cctccagcag caacatgaag cgagcagcct ccttgaacta 180
tctgaaccaa cctagtgcag caccccctcca ggtctcccgg ggcctcagtg ccagcaccat 240
ggacctctct tcaagcagct gacattcaac ccggccccca ggtctgctgg gtccccccac 300

<210> 1494
<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(252)
<223> n = A,T,C or G

<400> 1494
aattccgttg ctgtcgtgga gactttgatt cgaagcccag ttgggccgac caggtggggg 60
aggtgtgaga ggtttacnn agatctnact tgctagtcca caaatgccac atgtggacat 120
gcnnacccac tcaccctgtg ctgnctccac atntgtcaag ccctgaaacg cttcacaaga 180
cagacttttc tcttcgaagg gaaaccctat cttgcatttt actctacgct gntctttttt 240
tttgagactt ga 252

<210> 1495
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 1495
aattccgttg ctgtcgatga ggtgctggtg tgtggatgga tgaggtgctg gtgtgtgggt 60
ggatgaggtg ctggtgtgcg gatggatgag gtgctggtgt gtggatggat gagatgctgg 120
tgtgtggatg gatgagatgc tggtgtgtgg atggatgagg tctgtgtgna tnnatnaatn 180
nctattnctt tnnncctnaa ngcnntnntt catttntant attatnnncn ttnctttcaa 240

actnntnttn ncattattat nt 262

<210> 1496
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1496
aattccgttg ctgtcgccgg cctcctatgc cttctttccg ggcctgtttt aagagcattt 60
tcagaataca cacagaaaca ggcaacattt ggacacatct cttaggttgt gtattcttcc 120
tgtgcctggg gatcttttat atgtttcgcc caaatatctc ctttgtggcc cctctgcaag 180
agaaggtggt ctttggatta tttttcttag gagccattct ctgcctttct ttttcatggc 240
tcttccacac agtctactgc cactcagagg gggtctctcg gctcttctct aaactggatt 300

<210> 1497
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1497
aattccgttg ctgtcgcgac agcaacggtg acatctttcc tcggctcctg tttggatctt 60
cttcagatct taatggaggc agatgttagc agggatgaaa tacaggtgcc tgtgctggat 120
actgaggatg cgtggctctc cgtggaagga ccaatctcca tagtggaact ggcccttgaa 180
cagaagcaca tccactaccc actggtggag caccactcca tcctgtgctc catcttgtat 240
gcagtcatga ggttttctct gaagaccgtg aagccacttt cactttttga cagtaaggga 300

<210> 1498
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1498
aattccgttg ctgtcggttt gcttaacaga gtaaaaatgt ttttaaaaag tttaaagttt 60
ataaagtaaa agcattacaa taacctaatt ttaatttatt atggaagaaa gacattttta 120
aagataaatt tagtttagcc taggtataca gtctaactat agctggagtc ttcaacatac 180
ctctatcaac atttgataaa acaagccaga aatcatcaag gatatagaac catcaccatc 240
aaccagcaga atctcattga catttataga acacttcacc cagcagcagg atacacattc 300

<210> 1499
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1499
aattccgttg ctgtcggatt tctactctgt ctcctcaact ctgttgatat ttggggaaaa 60
ttctgttttt catagattct ttgagatgct gatggaccag cttcagcatg tttgaggttg 120
tctgaaatgg agatcactgt aaaactgtct ttttctttta aattacaagt acactggggt 180
taactgtatt gctggaaaaa catcaagaat gacagtctta tatttaaggc accagtcatt 240
ggttccattt ttttttttaa ttcttccctt ggattaatat ttnctactga anagaaatga 300

<210> 1500

<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

<400> 1500
aattccgttg ctgtcggaga tatgcgggca attcagcctg atgcaggtta ttacaatgat 60
ctggtcccac ctataggaat gttcaataat cctatgaatg cagtaacaac aaaatttgat 120
cctacatcaa caaattaagc aaagtgtcct gtattcttag tgctttggac taancaanga 180
atacgnttan ntacttgacc acttaccctc ctatcantgg tgnctaatnc ctatgttaca 240
cgatnaagac acaggtttan nactttgccc atatagttaa nttattgaca ga 292

<210> 1501
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 1501
aattccgttg ctgtcgggct ggagtgcagt ggctcaatct cggctcactg caaactccgt 60
ctcccaggtt cacaccattc tcctgcctca gcctcccgag tagctgggac tacaggcacc 120
tgccaccacg cccggctaat tntttttttt tngggatttt aantaaaanc gggntttcat 180
natgttaccc ngnatggngc taatntccng acctggggat ccncccnttt ngnccnccca 240
atgggctggn attncnggcn tgagccacna cncntagcct tcccnatcta tttttca 297

<210> 1502
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1502
aattccgttg ctgtcgaatc tctgtattat agctatttgt ctaacattac cccacatgta 60
ataaataaaa caatatgagc ataattgccc cataaagaac tcatgtcctg aattaataag 120
tcttttcatt gccagtcact tgtgcaattt atagagacta tcaacttttt tgcaccatat 180
atgaaggaaa caaagtgcaa aaagtttgct ctctccctta agaaaattga gtgcttatag 240
cctatgtctt ccatataaaa aagtaagaat atcagtcttt ttaatgttat tctaagaaaa 300

<210> 1503
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1503
aattccgttg ctgtcggaga aatccatcaa caaaattggc cacgctctgc acgcccacga 60
ccccgtcttc aagagcatca cacactcctt caaggtgcag accttggcca gaagtctggg 120
cctccagatg cccgtggtgg tgcagagcat gtacatcttt aagtctcccc tcatcaggac 180
gcctccttcc tgtacacgga gcccctgggc cgggtgctgg gcgtgtggat cgcagtggag 240
gatgccacgc tggagaacgg ctgtctctgg ttcatccctg gctcccacac cagtggtgtg 300

<210> 1504
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 1504
aattccgttg ctgtcgacgc attctacctt ttcctacaat gaatccacca gcagaaattc 60
ctgtacacat cttatcaaca aagaatttga acctcaaaga attctcactg tgttacctag 120
gctgcagtgc agnggtgcga tctcaactca ctgcnacctn tacctcctgg nntnaancnn 180
ntctnctgtc tnancnannn tanntntcat tntctacnnn ncttnnttgn nnannctagt 240
ntntttntcn tatntcatnt ctnccac 267

<210> 1505
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 1505
aattccgttg ctgtcggagg actgcttgag accagcctgg ggaacatagt gtgaccttgt 60
tgctatgaaa aaaaaaaaga aaataancca ggctgatggc acatgcctcn agtcccagct 120
tcacaanagg ttgaggtnan anaantgctt gacccanaag annagannen atanngnnga 180
nattaanngn aggnnngcat tntnctnnnn tagnnncnnn ctngacnntt gtcntnanna 240
ttctncngta tttnnccaan gaatngacnn atnaagnntn ctctnctcta aat 293

<210> 1506
<211> 296
<212> DNA
<213> Homo sapiens

<400> 1506
aattccgttg ctgttccgtt gctgtcggcc taagcataaa accaaaatta taaaactcct 60
agaagataac acaggagaaa acctggatga ccttgggttg gcaatgactt tttagataca 120
ataccaaagg catgctcctt gaaagaaata attaattgag aagccagaag gcaaaatggt 180
acagccattt tggaagacag tttggccgtt tctcacaaaa ctaaatatac tcttaccata 240
ccatgcagca attatactcc ttggtgttta cccaagactt gaaaacttgt gtctac 296

<210> 1507
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 1507
aattccgttg ctgtcggttt gatcccataa aacccaaacc tccacaatct aaattgcttc 60
gtgaagataa gaaccataac atgtatgttg caggatgtac agaagttgaa ctaaacttac 120
tgtacngnnt tataggcaca gtctaagaat ncactattac ctacaggnnc ngtaatatan 180
aagaaatngn nntgagggan annnancact ctttcttann aactnatcag cncnnntaga 240
tnttgggnta anaaaatacc gggngaaacc nncataaaat gattaa 286

<210> 1508
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1508
aattccgttg ctgtcggtca gtttttctag attggcaata gcctgttgca aagtgcctaa 60
acctttgaga aaaattacta tgagcaaggt ccatgattta gttttcaata taaagggaat 120
tccattctat actgtaaaat ccaaaaatgc tagttgccct cagcttttga gttgacttcc 180
agaaagttga gatcttttga ccatttttc tcgtgtcata taaaatgtgc cacatggtag 240
ttgtcaagct gtggtagtca tgtacacttt tttcttttt ttaactttct aaaaggaaaa 300

<210> 1509
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1509
aattccgttg ctgtcggtga ttctaattga atgcagtgaa ctgagaggaa ttatgaacta 60
ccaggaggtg gaggccctga agcacaccat caagctcctg acggtcatta aatggcatgg 120
accaaaatgc aacaagttga actccaagtt ctggaaacgt ttacagtatg aaatgccttt 180
taagaggata gaacccatta cacatgagca ggctttagat gtcagtgagc aagggccttt 240
tggggagctg cagactgtct cggccatttc catggccgcg gccacctcca cagctctagc 300

<210> 1510
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(258)
<223> n = A,T,C or G

<400> 1510
aattccgttg ctgtcggtcg gggtttcgta cgtagcagag cagctccctc gctgcgatct 60
attgaaagtc agccctcgac acaagggttt gtcgaataat tgcttcattt tcttgagcaa 120
tactgaagca ggatgaagta agaggaatgc attcattaaa acatgctttg ctttatgaat 180
tnttggctct ntttatgtc nctnttnnnt antnnnnnan tttnattann ntnannttat 240
tgttatntna ttannana 258

<210> 1511
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1511
aattccgttg ctgtcggcct aagcataaaa ccaaaattat aaaactccta gaagataaca 60
caggagaaaa cctggatgac cttgggttgg caatgacttt ttagatacaa taccaaaggc 120

atgctccttg aaagaaataa ttaattgaga agccagaagg caaaatggta cagccatttt 180
ggaagacagt ttggccgttt ctcacaaaac taaatatact cttaccatac catgcagcaa 240
ttatactcct tggtgtttac ccaagacttg aaaacttgtg tctacacaaa aatctgcacg 300

<210> 1512
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1512
aattccgttg ctgtcggtcg gtcttcctcc ggcccgggcc ctggcccagc tagccggcca 60
tggaagtgaa gaaaatgttt ggaagctctg tgaatacatc aaaaaccatg accagtatcc 120
tttagaagaa tgttatgctg tcttcatatc taatgagagg aagatgatac ctatctggaa 180
acaacaggcg agacctggag atggacctgt gatctgggat taccatgttg ttttgcttca 240
tgtttcaagt ggaggacaga gcttcattta tgatctcgat actgtcttgc catttccctg 300

<210> 1513
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1513
aattccgttg ctgtcgccag aggcagatgt gttgctgagc agaaatgaca aagaggtggt 60
ttctgtccct tgggcctgag ggtccggtgg cagagccaga catgacaaca atgtaaagca 120
ccagcaaaat gtgatgtcaa agggaagcag aaatacattc aatctgatag gaggacctag 180
gaaggtctct gtgaagaaca ggaaggattg caccagaaag ctcctgctgc ttctgtaccc 240
cgcctgtccc tcccagctgc gcagggcccc ttcgtgggat catcagcccg aagacaggga 300

<210> 1514
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 1514
aattccgttg ctgtcgaaga ggctgaggcg ggagaattgc ttgaacccag gaggcagagg 60
ttgcagtgag ccaagatcac accattgtac tccagcctgg gcaacagagt gagactctgt 120
ctcaaaaaaa aaaaccaaaa aanaaanaaa aanaaanaag gaaanaangg gaaaggaaag 180
gaaaanagan aganaaanan anaaanaaan acncttcntt tccgnaaagc cagccgnatt 240
cntcccagcg tntttnttgg ngtctgnnca tggataaagc ctcccnattc ccccg 295

<210> 1515
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1515
aattccgttg ctgtcggatg aagccatctg gtcctgggct tttctgtgtt gggaggtttt 60
tgattactga ttcaatctct ctcattattg gtctgatcag actttccatt tcttcatgat 120
tcaatcttgg taggttgtgt gtttcctcta gaaattggtc catttcttct aggttattaa 180
atttgtaggc atacaattct tcataatatt ctcttataat ccttttttatc tctgtcgtat 240
tggtagtaat gttccctctt tcatttctga ttgtagttat tgaatgttct ttttttttct 300

<210> 1516
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1516
aattccgttg ctgtcggtaa cttaaatact atcgtataat aatcatatca tataaaagtc 60
agtgcaactt acattacatg gtgagataag agagagaaga aaacaaaggt actgcttaat 120
atacacattc acacagacat attcataata aaataggagg aaatacttac aacaattaca 180
atcctcattt ctgtagctgt tcacatggtc gtggctggta tttataatta ctttgtctac 240
tatccaatct gtattcccct tcccttcaga aagcgcctca gctgggcatg gacccttacc 300

<210> 1517
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1517
aattcgttgc tgtcgcccgg atgaagaggt gagctcccct tcgccccctc agcgagccca 60
gcgtggggac cactcttccc gggagcaagg ccacgcccct gggggcactt ctcaggccag 120
acagattgat ttcccgctgc ggatcctggt ccccacccag tttgttggtg ccatcatcgg 180
aaaggagggc ttgaccataa agaacatcac taagcagacc cagtcccggg tagatatcca 240
tagaaaagag aactctggag ctgcagagaa gcctgtcacc atccatgcca ccccagaggg 300

<210> 1518
<211> 129
<212> DNA
<213> Homo sapiens

<400> 1518
aattccgttg ctgtcggggg atttgtgggg accgctgccc acagatccag gtgttggaag 60
ggcagcgggt aaggttccca agccagaccc aacaccctta ccacttggca cccagagggg 120
gctgcacct 129

<210> 1519
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1519
aattccgttg ctgtcgatac tctggtgacc agtggagtgt acgcttggtt tcggcatcct 60
tcttacgtcg ggtggtttta ctggagtatt ggaactcagg tgatgctgtg taaccccatc 120
tgcggcgtca gctatgccct gacagtgtgg cgattcttcc gcgatcgaac agaagaagaa 180
gaaatctcac taattcactt ttttggagag gagtacctgg agtataagaa gagggtgccc 240
acgggcctgc ctttcataaa gggggtcaag gtggacctgt gacgggcagt ggccccggtg 300

<210> 1520
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 1520
aattccgttg ctgtcgagag gagaacaaac tggttgctga agccatggtt tccctgggaa 60
gggggaccca cctgtgcggc acctggaatt cagaggaagg gctcncatnc ttgtgggnaa 120
atgannaaca tggccattan nantgctggn atngngnang cncncntatc tngacagnna 180
ctangnatnc naggnngact ttnctgaata tgnngnannn nntttacnnn tccctnntgn 240
ntgntacctg ngtgcggntn ctntgacaan ctggtgcntn antncattcc gaatca 296

<210> 1521
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 1521
aattccgttg ctgtcgtgaa cttttggctg aacctcatca ctcgaactcc agcttcaaga 60
atgtgttttc atgcccggcc tttgttcctc cataaatgtg tcctttagtt tcaaacagat 120
ctttatagtt cgtgcttcat aagccaattn ttattattat ttttggggna ctntncttcg 180
gaagattgcc ntgaagnntn nnnnaattaa nagngacttt ngnanaanac tnnnattann 240
tangtnncnn nacntnanna anattnnang antttgagga gtt 283

<210> 1522
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

<400> 1522
aattccgttg ctgtcggctg ggctgaccac gttactcatc cccgttaaca ttctctctaa 60
agagcctcgt tcatttccaa agcagttaag gaatgggaac cagagtgttt taggacctga 120
agaatcttta tgactctctc tctttcactc tttttttttt ngccnntann tnaaanncaa 180
agngnnngtt tnancgtttt ngtnntcntc gggccccnng ttncannnan gggncaaang 240
ntttggntnt aagncnatcc cnccntnaan ttnggggacn aattttaatt cc 292

<210> 1523
<211> 269
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(269)
<223> n = A,T,C or G

<400> 1523
ccggaatacc tctactcggt cattttgcag gancccatng attcgaattc cgttgctgtc 60
gattgtcagt ttgatattta ttttaaattg tggaactaga tgcataaatt cacatttctg 120
cctttccttt gcatcttctc atatattgtg tttttttttt tttcccnaaa aaaanantta 180
aanncattnt tnancngnaa aaaccnnnnn tntntgtanc ccangantta nnccccggncn 240

nanngnannn atnttaatgt anaatttta 269

<210> 1524
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

<400> 1524
aattccgttg ctgtcgagga gatgcagttc ttaatgaagc tgctcaaatt ctgcgattgc 60
tgcacataga ggagctcaga gagctacaga caaaaatcaa cgaagccata gtagctgttc 120
aggcaattat tgctgatcca aagtnanacc acagactgtn aaaagttgga cgatnagtac 180
ntgatgnnnc cngntaggta ncnnnancta ttatgncnan ctacanagnc tcggngccnn 240
gcagngctnn ntncctnnat tcttg 265

<210> 1525
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1525
aattccgttg ctgtcggtcc agtgccaaga gggcccggca agaagaagtg acaatgaagt 60
cttttcttgc ggacactccc tcctgtctcc tattttctgt aaataatttt ctcctttttt 120
ctctcttgat gctcaccacc acctttgcc ccttctgtc tgactttata agagacagga 180
tttggattct tcagaaatta caggaataat catttttcct tacccagttg tggcaagggc 240
caggcaccac ccatctaatg atgaagaagg acctaaaatt tggtttgcta atacccaact 300

<210> 1526
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1526
aattccgttg ctgtcgatga gaataaagtt agaatgagaa tgttcctagc atggtgcctg 60
gcatgagcag attctcagca gatgggccct cctgtaatcc gctgagggct ctcctgcagt 120
gccagcaggg atcctagtca ttgtctccac cactcctgtc tgtcttcacc cagaaccttg 180
tctggatcct gggaggaagc aaacatctcc tggtgggaat gtgaggccct gccaggttgt 240
aggagtaact ggaaaagggc aggtggccct gcccactatg tgggcacctc atgataaatg 300

<210> 1527
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1527
aattccgttg ctgtcggaaa atattattat gttagtttta gcgtggaaat tggaggctga 60
aagcatggga tttttaccca aggaagaatg gttaaaggga atgacttcat tacagtgtga 120
ctgcacagaa aagttacaaa acaaatttga ctttttgcgc tcacagttga atgatatttc 180
gtcatttaag aatatctaca gatatgcctt tgattttgca agggataaag atcagagaag 240
ccttgatatt gatactgcta aatctatgtt agctcttctg cttgggagga catggccact 300

<210> 1528

<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1528
aattccgttg ctgtcggaac tgggttaggt gccgctgttg ctgctcgtgt tgaatctaga 60
accgtagcca gacatgggac tggaggacga gcaaaagatg cttaccgaat ccggagatcc 120
tgaggaggag gaagaggaag aggaggaata aanggtaana actggnttac anntgctttn 180
atatgangaa tcaaaggcna nancnctntg aggtagtntt acctnnacct gcgntntnct 240
atgntctttt antgctgngt tgaanggtnt nannatnnnt ananatnnna aanccagctg 300

<210> 1529
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1529
aattccgttg ctgtcgaaaa gccttaatgg ccatgaataa cctgagtgag aattatgaaa 60
atcagggccg gcttcaggtg tacatgaata aagtgatgga tgatatcatg gcctctaacc 120
tgaactcagc agttcaagta gttggactaa aatttctaac aaacatgact attactaatg 180
actaccaaca cctgcttgtc aattccattg caaacttttt ccgtttgcta tctcagggag 240
gtggaaaaat caaggttgag attttgaaaa tcctttcgaa ttttgctgaa aatccagata 300

<210> 1530
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 1530
aattccgttg ctgtcgggac actttgtgat ttccattaag gccaactgca ttgactccac 60
agcctcagcc gaggccgtgt ttgcctccga agtgaaaaag atgcaacagg agaacatgaa 120
gccgcaggag cagttgaccc ttgagccata tgaaagagac catgccgtgg attnatngat 180
atgnatnnta anannannnn gtnnnttaan naaagttcnn ntanatnatn atnttaatcn 240
gnnattannn aanntntgng c 261

<210> 1531
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1531
aattccgttg ctgtcgccaa gtccatgcgc tccatgaatg gctcgcggcg gaacagtggc 60
tcctcgctag tgtccagctc ctcggcctcc tccaacctga gccacctgga ggaggacacg 120
tggatcctgt ggggccggat cgccaacgag tgggaggagt ggcggcgcag gaaggagaag 180
ctgctcaagg agctgatccg caagggcatc ccccaccact tccgggccat cgtgtggcag 240
cttctgtgca gcgccacgga catgcccgtc aagaaccagt actccgagct gctcaagatg 300

<210> 1532
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1532
aattccgttg ctgtcggagc aattaaattc attgtctcag ttcaagagtg aatatagcaa 60
cttatgtgaa cctgagcagt ttgtggttgt gatgagcaat gtgaagagac tacggccacg 120
gctcagtgct attctcttta agcttcagtt tgaagagcag gtgaacaaca tcaaacctga 180
catcatggct gtcagtactg cctgcgaaga gataaagaag agcaaaagct ttagcaagtt 240
gctggaactt gtattgctaa tgggaaacta catgaatgct ggctcccgga atgctcaaac 300

<210> 1533
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1533
aattccgttg ctgtcggccg gaaccacgag gagagcagtg agaccatgaa tgacttgctg 60
gcccaggtgg ccactaacac ggacaccagc cgaaatgccg gaaatgcggt cctgtttgag 120
acagtactca ccatcatgga tatccgctct gcagctggcc tacgggttct agctgtcaac 180
attcttggtc gcttcctact caacagtgac aggaacatta ggtatgtagc cctgacatca 240
ctgcttcgac tggtgcagtc tgatcacagt gctgtgcagc ggcatcggcc cactgtggtg 300

<210> 1534
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1534
aattccgttg ctgtcgaaaa taaagaggaa agccttttgg aaaagcgcag gcagctgtct 60
cgtgatattg gtagattgaa agaaacatat gaagctctat tagccagatt tcccaatctt 120
cgatttgcat acaaggatcc agagaagaac tggaatagaa attgtgtgaa aggacttgtg 180
gcttctctga ttagtgtgaa agacacttct gcaaccacag ctttagaatt agtggctgga 240
gaacgactct acaatgttgt agtagacaca gaagttactg gtaaaaagct actagaaagg 300

<210> 1535
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1535
aattccgttg ctgtcggttc tgcattagca tctgctggtg atcctggaca tccaaatcat 60
cctcttcacg cttctcagaa ttcagcgaga agagagagga tgactgcgcg agaagaagct 120
agcttacgaa cacttgaagg cagacgacgt gccaccttgc ttagcgcccg tcaaggaatg 180
atgtctgcac gaggagactt cctaaattat gctctgtctc taatgcggtc tcataatgat 240
gagcattctg atgttcttcc agttttggat gtttgctcat tgaagcatgt ggcatatgtt 300

<210> 1536
<211> 242
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(242)

<223> n = A,T,C or G

<400> 1536
aattccgttg ctgtcgattt tattttgatc cttgttaaat ttttatttta attaataagg 60
tagtcattcc tgtagaggga taagatgctt gtagagttgt gggtatcatt ccaaatagaa 120
ctgttatgat ttgggaaata ttctttacta caaaggactt atttcataat tacaaatttt 180
ccttcatatt tgcctttgnn nataanannt nnaggaanga cattntntag cantannagg 240
aa 242

<210> 1537
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1537
aattccgttg ctgtcggtgt gtgtgtgtgt gtgtgtgtgt gtgtatggag atgctgaaag 60
agcattgata aaattctaga ctttcctaac aataacccca agtaaaacaa gaatagaaga 120
aattgctaat gttataaaga ctacttgtat aaaactaatg tctaaatagg gaagcactaa 180
agccatttcc tttagaatca gaaacaaaac aagaatgcac attatcatca ttattattca 240
acattgtttt agaaattcta gagactgcaa tacacaagaa atgaaatatt gggtatgaat 300

<210> 1538
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

<400> 1538
aattccgttg ctgtcggaaa tgcaaggggc tgcatgacct accaggacag aactttcccc 60
aattacaggg tgactcacag ccgcattggt gactcacttc aatgtgtcat ttccggctgc 120
tgtgtgtgag cagtggacac gtgaggggga ggtgtgggag ggttnnagtc tgcnnggntn 180
ntgctcnnta cntnncnntn ctnctttnct aaccgncnna tnnnngcnca tgnagantnt 240
ntanngcact ttnctnngtc 260

<210> 1539
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(284)
<223> n = A,T,C or G

<400> 1539
aattccgttg ctgtcgaaaa tgcccagtca ggtctgaatc gtcagtgcat tatattgact 60
ctgagcactt tagaatttag agttgcaatt gaatgccagc tgtggagatg gggtgcatat 120
cagatatata aataaagctc angtttgttn nggaaccnng tattnnnaaa nntncttntg 180
anntnttnnt nnttnnantn tntanagnna tnnctttntt tntaaanntt nnntnnaggg 240
nnatantngn nnttttgtnn atananncnn nanacctgtt tttt 284

<210> 1540

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1540
aattccgttg ctgtcgcgca ctccctcttt ctctcttttc ctgtatcttt cccttttaat 60
ttgctatagg aaaaacttaa acatgagtga gcaaagagga ggatgcaact gaatattttt 120
ggaaatgtgg atatcatata agggcttgga agatcaacac tgggatgatg atgagcagaa 180
tggtcatgaa gatgcccaaa atcagggccc agatgttcag gcacttggcg gtggaggcat 240
aggcctgggc gccagtcagg tcgccaacca tcttcctgtg cctagacttc acggagtaag 300

<210> 1541
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1541
aattccgttg ctgtcgggca cgtcctcgtg tatcctgtgg aggaccctga ccccgcaccc 60
caccctcgag gccagaaatc ggttgcctct ggggacctga gaagcgagac cactcgcgcc 120
cctgacttgc aagttggggt ctttattggc ctccgggatt ctgctcgtgg cggtttctcc 180
aggctggtga tgggcaagcc gggtgtacca agtccaggat gcacatgagg agccgtttgt 240
aaccgcactg aatcacctca tgactagcgg ggcaggcctc taattcaccg caggaatttc 300

<210> 1542
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

<400> 1542
aattccgttg ctgtcggatt ctccccctct tgaaaaaaaa tcgatttttc aggatttaat 60
taatacaaac cttattttag gttggtgctt aactggaggt gatgcataag tctgattttt 120
ttttccaaga tagaaaaagc atttatccta acaaattggt atttttata agcctccatg 180
tggctctgaa tgcaagctat atatagtgag tttttctaaa ttaagggaac tctgcttttt 240
tttttttttt ttaaanaanc gggnc 265

<210> 1543
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1543
aattccgttg ctgtcggtgg aggggcccgt tcgaagagtc gtgagggggt gacgggttaa 60
gattcggaga gagaggtgct agtggctgga cttgacctgg aaagaatctt ctgctgactc 120
tcaacttttc ctggaaaaaa tggatcattc ccaccatatg gggatgaagc tatatggact 180
ccacagtacc atgcaccttt tcaccatacc ccaccccttc accttacact cccatggggg 240
aaggagacag cagcatgatg atgatgccta tgacctctac ttggctttaa gaatgtggac 300

<210> 1544
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1544
aattccgttg ctgtcggaat atgatacttt ggaggggaaa tgcttggcgt gtgtacaagt 60
atgaggagac caacttacac aacccatcaa atacttatgc tcctcatagc caaggaggta 120
ttccacctcc tgctggaatg taattaaagg gagaaacaca ctgtatgaaa tatatgtcta 180
tatcatgact tgttgccaac atcttgaggc acattatttg tttccaataa aagtaatgtt 240
tttttttttt aancccccan tgagatatca cctcacaccc atcagantgg ctactgtaaa 300

<210> 1545
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 1545
aattccgttg ctgtcggttt ccactattga cactgcccgg ctgattcaag cttttggcca 60
tgaaagagta tgcttgtcac ccagacgaat taaattatat agcagcatca ccaaccaaca 120
gaggagatac cttgagaagc ggagcaaaca cagcaagaaa gtgntgaaga ctggncantc 180
ccctatngac ttntgatcac accagaangn atcncattca agnancnnnc catntatant 240
tnnccttacn ntaannnnnt nnctngc 267

<210> 1546
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1546
aattccgttg ctgtcgggag taccgggatt ctgatggaac ctcatctgtt tgaattacta 60
gcccagaggg tcatcactct ttacctgcaa acagtacctt ctctgatgtc tgggagaggt 120
ggtttatttc ccatatactt gttaagtgta gatcttgggg aagaacaact aacaccagaa 180
acatcacatg ttggctgttg gggaggtgct tgtccatttt gtatcccttt tatttttcc 240
caatcaacag agatccagtt agaaggagca gcaagacctt ccaggaggcc atgctggaag 300

<210> 1547
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1547
aattccgttg ctgtcgcagt gagcgggtct gggcggctgc tggcagcgcc atggagacgg 60
tacagctgag gaacccgccg cgccggcagc tgaaaaagtt ggatgaagat agtttaacca 120
aacaaccaga agaagtattt gatgtcttag agaaacttgg agaaggatta ctgtagatgc 180
agtatatgga atcaggaatc ttaacttcat gtgagctatt ggagtttcct ttgctatcag 240
gatcataagg gagggtctat gcagcgtata caagctattc ttaaggagac cggccagatt 300

<210> 1548
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1548
aattccgttg ctgtcggttc tgttttgttt ttggtttctc ccttgtgtca gttctcttct 60
ggcccagctg ggtggctgtg gaagtctgtg aggtggccca accacaagca tacctattaa 120
gagaagccca gagcttccag cccccacttc gaaaactctc tctggcccac atagcaaact 180
ccttcttccg tatttttccc aaccccagaa tttttttaaa aaggccactt tgccggaacc 240
ttctttgggc cattttggtt tccaatcaag cccaaggtta tatgaataaa gggggttaac 300

<210> 1549
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1549
aattccgttg ctgtcgagca ctctatgttc gttatctcat ttgctctaag tatgtaaata 60
gggaactgat gaataaaaag gtgagtgaaa tgacttggtc acaaaaaaag tgataaaaat 120
ggggattaca gttcagtttc attgactctt agaatttttt ctccttctcc ccagcttttc 180
attttgaaaa aattcctaac atacagtaaa gaacagaaca acaagcacct agattaaata 240
gtcattaatg ttttgccata gttgcttgat ttttctttct acacacacac acacacacac 300

<210> 1550
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1550
aattccgttg ctgtcgcttt tacggaatta agcagagaaa atgatgaaga gaaagtcacg 60
tttaatttga gtaaaggagc atgtagctca tccggagcaa catcttccaa gtcaagtact 120
ctgggaccga gtgcactgaa gacgatagga agttcagcat cagtgaaacg aaaagaatct 180
tcccagagct caactcagtc taaagaaaag aagaaaaaga aatctgcact ggatgaaatc 240
atggagattg aagaggaaaa gaaaagaact gcccgaacag actactggct acagcctgaa 300

<210> 1551
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1551
aattccggtg ctgtcgagcc tctagacatt gcggccgcta tctacgtaga tccagacatg 60
ataagataca ttgatgagtt tggacaaacc acagctagaa tgcagtgaac aaaatgcttt 120
atttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacaa 180
gttaacaaca acaattgcat tcattttatg tttcaggttc agggggaggt gtgggaggct 240
ctnatgtcca ccagnagttg ttcnacccct cnccangtnc caggtgggat cacctgatac 300

<210> 1552
<211> 244
<212> DNA
<213> Homo sapiens

<400> 1552

aattcaaggc ctctcgagcc tctagacatt gcggccgcta tctacgtaga tccagacatg 60
ataagataca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa aaaatgcttt 120
atttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacaa 180
gttaacaaca acaattgcat tcattttatg tttcaggttc agggggaggt gtggggaagg 240
ttta 244

<210> 1553
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1553
aattccgttg ctgtcgggta gaaatgggtc catttaaaca tacggttgat gatggtctgg 60
atattagaaa ggcagcattt gagtgtatgt acacacttct agacagttgt cttgatagac 120
ttgatatctt tgaatttcta aatcatgttg aagatggttt gaaggaccat tatgatatta 180
agatgctgac atttttaatg ttggtgagac tgtctaccct ttgtccaagt gcagtactgc 240
agaggttgga ccgacttgtt gagccattac gtgcaacatg tacaactaag gtaaaggcaa 300

<210> 1554
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1554
aattccgttg ctgtcggcct tgttacagca aatactatcg atcagaaaat tgtggaaaga 60
gcagctgcta aaaggaaact ggaaaagttg atcatccata aaaatcattt caaaggtggt 120
cagtctggat taaatctgtc taagaatttc ttagatccta aggaattaat ggaattatta 180
aaatctagag attatgaaag ggaaataaaa ggatcaagag agaaggtcat tagtgataaa 240
gatctagagt tgttgttaga tcgaagtgat cttattgatc aaatgaatgc ttcaggacca 300

<210> 1555
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 1555
aattcaaggc ctctcgagcc tctagacatt gcggccgcta tctacgtaga tccagacatg 60
ataagataca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa aaaatgcttt 120
atttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacaa 180
gttaacaaca acaattgcat tcattttatg tttcaggttc agggggaggt gtgggagntt 240
tcccntaatn taananctnn atgncnctag natgttacat gatgncnngn ncctgtgct 299

<210> 1556
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 1556
aattcaaggc ctctcgagcc tctagacatt gcggccgcta tctacgtaga tccagacatg 60
ataagataca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa aaaatgcttt 120
atttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacaa 180
gttaacaaca acaattgcat tcattttatg tttcaggttc agggggaggt gtgggaggnt 240
ttgncccccct ntggcctttc ctancancct tcnaacctna cnnnacacct c 291

<210> 1557
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1557
aattccggcc tgtcgagcct ctagacattg cggccgctat ctacgtagat ccagacatga 60
taagatacat tgatgagttt ggacaaacca caactagaat gcagtgaaaa aaatgcttta 120
tttgtgaaat ttgtgatgct attgctttat ttgtaaccat tataagctgc aataaacaag 180
ttaacaacaa caattgcatt cattttatgt ttcaggttca gggggaggtg tgggagggtt 240
ttacaatgtc cgctccatgc ccatccgcaa ggacgacnag gccaggtagn tcnaggacac 300

<210> 1558
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1558
aattcaaggc ctctcgagcc tctagacatt gcggcccgct atctacgtag atccagacat 60
gataagatac attgatgagt ttggacaaac cacaactaga atgcagtgaa aaaaatgctt 120
tatttgtgaa atttgtgatg ctattgcttt atttgtaacc attataagct gcaataaaca 180
agttaacaac aacaattgca ttcattttat gtttcaggtt cagggggagg tgtgggaggt 240
tttantncta gnnanatntt gnanatnatt ncttttaatc nnngnattnt aattacatgt 300

<210> 1559
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 1559
aattcaaggc ctctcgagcc tctagacatt gcggccgcta tctacgtaga tccagacatg 60
ataagataca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa aaaatgcttt 120
atttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacaa 180
gttaacaaca acaattgcat tcattttatg tttcaggttc agggggaggt gtgggaggtt 240

ttaancangn tcttgatgaa tgtgctttgt gccaaaatgc ctncccattg t 291

<210> 1560
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 1560
aattccgggc tgtcgagcct ctagacattg cggcccgcta tctacgtaga tccagacatg 60
ataagataca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa aaaatgcttt 120
atttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacaa 180
gttaacaaca acaattgcat tcattttatg tttcaggttc agggggaggt gtggnaggtt 240
tttctggaca gttcacgctg ncaatgaaat gngacctatg ntatccattg tcctgga 297

<210> 1561
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1561
aattccgttg ctgtcggttg gttcgtcaca aggcatcgca gaaggtttat gctatgaagc 60
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atattatggc ctttgccaat agcccctggg tggttcagct tttttatgcc tttcaagatg 180
ataggtatct gtacatggta atggagtaca tgcctggtgg agaccttgta aaccttatga 240
gtaattatga tgtgcctgaa aaatgggcca aattttacac tgctgaagtt gctcttgctc 300

<210> 1562
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1562
aattccgttg ctgtcgctgt cagccacaat gccttctgat gtgcttgagg tgaccaagaa 60
gttcatgagg gaccccattc ggattcttgt caagaaggaa gagttgaccc tggagggtat 120
ccgccagttc tacatcaacg tggaacgaga ggtggggccc agtgcaggag gcgggcctgg 180
tagtgagttg ttgggtatag cccctgactg atttttgtcc cccaacctcc aggagtggaa 240
gctggacaca ctatgtgact tgtatgaaac cctgaccatc acccaggcag tcatcttcat 300

<210> 1563
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1563
aattccgttg ctgtcgggcc ctgtcctgaa ccagatgaga aactttggga tcctgtcggt 60
tactactatt cagatggctc ccttaagata gtacctgggc atgcccggtg ccagcccggt 120
ggggggcccc cttcgccacc tccaggcatc ccaggccagc ctctgccttc tccaactcgg 180
cttcacctgg ggggtgggcg gaactcaaat gccaatggtt acgtgcgctt acaactagga 240
ggggaggacc ggggagggct cgggcacccc ctgcctgagc tcgcggatga actgagacgc 300

<210> 1564

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1564
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aaccagccat cagataccaa ggtgtaccat gagaacatca agacaaacca ggtgatgagg 120
aaaaaactca ttttattttt taaaagaaga aatcatgcaa gaaaacaaag ggaacaaaaa 180
atctgccagc gttatgatca gctcatggag gcatgggaga aaaaagtgga cagaatagaa 240
aataatcctc ggaggaaagc taaagaaagc aaaaccaggg aatactatta aaaagcagtt 300

<210> 1565
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1565
aattccgttg ctgtcggatg ctcagagtgt agtggatatt tatgtaaact atgactgtga 60
cttaaatgca gccaatatat ttgaaagact agtaaatgat ctatcaaaaa ttgctcaagg 120
aaggggcagt caagaacttg gtatgagtaa tgttcaggaa ttgagcctga ggaaaaaagg 180
tttagaatgc ttagtgtcga ttttgaagtg tatggttgaa tggagtaagg atcagtatgt 240
gaatcccaac tcccagacaa ctcttggtca ggaaaaaccc tcagagcaag agatgagtga 300

<210> 1566
<211> 1076
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1076)
<223> n = A,T,C or G

<400> 1566
cncangttnt ngaaaacccc ctttttgggn aaaaaactcc ccccnggtnt nctttttttt 60
tggncaaggg gaatacncca ancccgcaat ttccngnana ggtnnagggg ggnangggan 120
ggcaggggaa nngagnccgg ggcttggcnt ncngaaaacc ngnanttttt tgtgggacgg 180
gggggagggc ncngggggga ccggaataaa agcngggggn tgggggaaaa ggnaantngg 240
ttttcaaagg ggaatccaaa aacggggcgn aatggttaga ngggnggacc ctnggncccct 300
ggggggaagn gnnacnngaa tttgnaaagg ganggnnnaa atcnngggaa ngtcccngga 360
anaacgggga naagggggcc cangagggan gggctcccca agnggatttt ttaacggaca 420
catggaacga agnaaggttt gtnnggaggg ctcnaaaatg ngccngggaa nggggcnntc 480
cangnggggn gggtanngta acannntcnc ggacaanatg ggnggccact nantngaaaa 540
nnaatcttgt tgctattaaa aaataaagct gacccancgg gngaagtngc tnaatgggga 600
atgcaaantn nttgaggggn ccngggngac gnnactaaat tgnggtcaaa ttnttgaana 660
nacggnnaat gggngaantg gcaagtgann gnaacctant actcaangan nttttattga 720
tnggnnagan ggagnaagac cttgggaaga ancennettg gggcttatga aacggggaat 780
aaaatagggg gnaangtggc natccntttc ttggggacan gggaacttgc tcagggggga 840
aanggaacat ggaggcgggg nggcgcaagg gncctgctca atngngttct taatgnnanc 900
cttgncttaa aanggagant aangngaaan aagtgggggn nattgttggn naantntatt 960
tggggggaat antgggcacg ggctnaataa ataanngcnc gnaggcccat aangggaggc 1020
cncnangggn accccntgga nnattgggca gangnanctt tntnannnag gttaan 1076

<210> 1567
<211> 745
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 1567
cttggctttt tgcaggatcc catcgattcg aattcggcac gagcagagct tagacatcca 60
aaactaatca atgctgaggt ggctaaatac ctagcctttt acatgtaaac ctgtctgcaa 120
aattagcttt tttaaaaaaa aaaaaaattg ggggggttaa tttatcattc agaaatcttg 180
cattttcaaa aattcagtgc aagcgccagg cgatttgtgt ctaaggatac gattttgaac 240
catatgggca gtgtcaaaat atgaaacaac tgtttccaca cttgcacctg atcaagagca 300
gtgcttctcc atttgttttg cagagaaatg tttttcattt cccgtgtgtt tccatttcct 360
tctgaaattc tgattttatc catttttaa ggctcctctt tatctccttt cttaaggcac 420
tgttgctatg gcacttttct ataacctttt cattcctgtg tacagtagct taaaattgca 480
gtgattgagc ataacctact tgtttgnata aattattgaa atccatttgc accctgtaag 540
aatggactta aaagtactgc tggacaggca tgtgtgctca aaggacattg attgctcaaa 600
ttttaaggaa atgggnccaa tgaaccgtng gttgtgggga aggggaaaga ngaaaccnga 660
gcttggtcan aatgtggaaa tnggatctgg tggnaataaa catgtttaaa accaanccnn 720
nnnnanaaaa aaaagncctt tttta 745

<210> 1568
<211> 674
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(674)
<223> n = A,T,C or G

<400> 1568
acgaggctgc atctgnnnnn aggatgccac cctacgctgc gctggctgcg atggggacct 60
cttctgtgcc cgctgcttcc ggtgggtgca ggtggaatgt tctgtgcgag agctcaaggg 120
ctgcctggat ccctgacttg tatccctttg ttccacagag agggccatga tgcctttgag 180
cttaaagagc nccagacatc tgcctactct cctccacgtg caggccaaga gcactgaaga 240
caccctggtc ctcccggaag ggcagtccca caggcagcgg cacccatttc tgggccccgc 300
cacaggacgt ccgatgggag agcttgtctg gctctactga tgatggatag gccccttcct 360
gagccttggt gtccctggaa tgaggaaaga ttctccattc gagagaatga ctgggaggga 420
agaagtcggg gccctcctat tagaagccca gactggaagt gagaggcatg atggggagag 480
accagactga atctacgggt gagccctgta acctggctct agggcacang cccctccctg 540
gcacttantg ggtctaataa agtatgttga ttcattggga aaaaaaancc nntcntngnt 600
nnannnaana nncctccccc cccttaaaaa anttntnggg ggggnntttt ccctnanccc 660
nnanttnaaa aaan 674

<210> 1569
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 1569

gnnnnnnnnn nttnnanncn annncnnatc gantcgcacg agctgcatct gcaatgagga 60
tgccacccta cgctgcgctg gctgcgatgg ggacctcttc tgtgcccgct gcttccggtg 120
ggtgcaggtg gaatgttctg tgcgagagct caagggctgc ctggatccct gacttgtatc 180
cctttgttcc acagagaggg ccatgatgcc tttgagctta aagagcacca gacatctgcc 240
tactctcctc cacgtgcagg ccaagagcac tgaagacacc ctggtcctcc cggaagggca 300
gtcccacagg cagcggcacc catttctggg ccccgccaca ggacgtccga tgggagagct 360
tgtctggctc tactgatgat ggataggccc cttcctgagc cttggtgtcc ctggaatgag 420
gaaagattct ccattcgaga gaatgactgg gagggaagaa gtcngggccc tcctattaga 480
agcccagact ggaagtgaga ggcatgatgg ggaaaagacc agactgaatc tacgggtgag 540
ccctgtaacc tggctctagg gcacagcccc tcccctggca cttantgggg tctaataaag 600
tatgttgatc attggganaa ananncncnn atcnncncnn cnnncncccct ccccntnaaa 660
actttggggg ccntttcntc aaccccnct ttaaaanacn ttgnngttnn nnacccccctc 720
ttanntnnnn nnnttnctct cccnccn 747

<210> 1570
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 1570

gnggnnnttn nnnnnnnngn nngnnnnnng ngngnnnntt ctaatgcttc caacagncnc 60
nggggctcga actcgctcca cgcagccngg cngtgngaat tcggcacgag gacngcacac 120
ntcacggggt gccctcccaa cnctncgcat gcgagacccn gngccaatat cgggggggntc 180
aatgaccann ngggctcagc atgganaaac agngccctgc ctgaagggca gnnagaatca 240
aaaggatctt accccctngta tcangagggn ggctatgctc cctccatncc aagnngagcc 300
cnggactaga aagcacgatg ncgncnnaca tctactgnna ncgcctaaac anaatccctn 360
ctccntgang ggcnaaacgn cctcatcccn aatncaacan tgggcnngaa ngactgaaaa 420
tcgccggaac tcancaccat gatcggaccg ggacantcag accctntcct gccncancna 480
ncgncnatcg atccgaaaag tgnanntatn agcacaacna cggggganggc atanggaccc 540
tgcnagaaag aacnngcncn nnctcncnng gactgccatg aaggntagcn gcctaaaatc 600
nnnncctgac actcggaggn ccgccacaan nngnnnaagn nanggcnnga cgnnacactg 660
gntgaaaaaa annnngnngn nncnnggnaa acccnngccc nnnnnacnnn nnngngncgn 720
annccnngcc cccnnnnacg atnggnnccc nngc 754

<210> 1571
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 1571

ttaatanatc cttgtattgg cngatccatc gattcgggcg aaaatcgaaa tcaagttatc 60
cgatattcca gaaggcaaga acatggcttt caaatggaga ggcaaacccc tgtttgtgcg 120
tcatagaacc cagaaggaaa ttgagcagga agctgcagtt gaattatcac agttgaggga 180
cccacagcat gatctagatc gagtaaagaa acctatcang ataacccatt caggtttctt 240
tactcgatct agatcatgta aagaaacctg aatgggttat cctgataggt gtttgcactc 300

atcttggctg tgtacccatt gcaaatgcag gagattttgg tggttattac tgcccttgcc 360
atgggtcaca ctatgatgca tctggcagga tcagattggg tcctgctcct ctcaaccttg 420
aagtccccac gtatgagttc accagtgacg atatggtgat tgttggttaa gagacttgga 480
ctcaagtcnt aggcttcttt cagtctttat gtcacctnag gagacttatt tgagangaac 540
cttctgtact tgaagttgat ttganatatg taagaattga tgatgtattt gcaancatta 600
atgtgaataa attgaattta atggntgaat actttcaggc attcacttaa taaagacact 660
ggttaaccac tgntatgctc aatcataccc nctaaaaggt acaaatggcc tttttaccta 720
atnctaattn aaaaattncc ngactggngg taaaaaaaaa a 761

<210> 1572
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 1572
agnttcgaat tcngccgagg ttacatcaag agataaatag agtgaagcag aactagtggt 60
gcggaccagc tcgccagcaa cagaagggtt tgtagtcggc ctggcagtgg acagggaggt 120
tggctagaac tattacctta ggtccgtgat aatatccctg aatccaactt ttcagaaaga 180
aataggtaac atatttttca ccaggaagct tcacccagac actgaacaga atggtctcag 240
tgcactaatg gaggctcagt taaagggttg tggtagcaca aggaagagac attctgactt 300
ggaaatttgg agaaggcttc acaaatgaag gggcatttga aatgagcttt gaaggtgcaa 360
gagtattcca agttgagaag acaacctgag tggtgttggg tgaacagtca ttctacctgg 420
ctgtagtgta gtatagtgta gtgtagtgta ggaaacatca gaggagtgga gtgggatatg 480
agcctggaga gagctggcgg ccatggatca ttgaaagcct tgaatgtctg atggggaggt 540
tgactttatt ttgtaggcaa tggaaaccac catggttttt agttgagcag catgaaatta 600
agcctgtgct ttgcaaagat taatctanca ccaccagatt gaagccacac cccatttctg 660
gtataatcca gtaaatatat acactntttc tgtattggtc cataaaggct tt 712

<210> 1573
<211> 1259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1259)
<223> n = A,T,C or G

<400> 1573
ttcnacnnnc aantnncnnn tcgtnttatn tancaangta ttnngnncan gntanntntc 60
atatgtnnaa aacnggnnnc gnttantant anacnctann nntanngana ngtncncttn 120
tanatctgtg ncaaatatat cgtnangtga actcanngnn nacacnacan atntnntngt 180
anacncannn ccagantnct tgaactntct nncacaanca tnnngaaana aatacntagt 240
nntnccaatt tattgatcgn antnngcacg agaaaacacc ntncatggca cctcgtttgg 300
nncaaataag gctatgtttt tgaaagtaac ctttccacaa gncaataaca gaagctatgg 360
tgaaatgtaa aaattcacaa ttctactttg tttcactgag tgcccaatca acgattcata 420
cagttgagat gaatgtgaca aaactctcta tagataaata tatattgcct aagtttatct 480
atatatatat gtctttgtgt gtaatattca tacacagata tattgcaana ganattaaat 540
antcttnctt acataaacca ncnntaggat cattntnnca gggaatatga ganttacacn 600
cataggntcc tatgantgga ncatnnagac atatnataaa cnntttanga aaagantang 660
ccattnnatn tctcctgatn tcatnaactt nanncсncan tnanttcnca ncanctnntt 720

tncatctnct tangntngcn ctnannnnan tnncaattcn tagtatggac tctnntttnn 780
cgancagann gtntncttca tntccnaatn tantatnanc taacanaatn tggnnatatn 840
ntgccatnta nntccgnaan acgcatatna tnncgtagna ccnacngtnt cacntntnct 900
cncttatcta ccacattgat cgtnntagca ncggtcgtta cantntntca tatacatcgn 960
anatctcgcn atntcnacat ataattanan nnnantatnn atgnnaangt nctctnatat 1020
gangtgcaca taattcatnc gagtncacgn tntanatnna catanantnt ctactgtttt 1080
annccgncat gtcagnatat gtttcgagnt cnctnnntca tcgannnacg ncgtgcntnt 1140
ctcacgtctn ttatcgnctn ntatcatgcn cnatttnntc ntctgtantc attntatgca 1200
tatanagtga cgnacnnatc tcnatcattt tcatattntt tnctcgttan canactncn 1259

<210> 1574
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 1574
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ggtcccagga aattcctccc cttattcttc cttgaagtgc ccgagcatgt agggcaagaa 120
ggaaggctga agcgctgtcc ctaggaggaa tttctccttc aggggagcct cagttttgcc 180
catttatcta attgaatcag ttttttaccc aatcccccga ttttgtagga taatctccct 240
tatctaaagt caactgatta tggactttaa tcacatctac aaaacacttc catggcgaca 300
gctagatgag tgtttgaata actgggactg tagcccgtcc aagttgacac ataaaactga 360
ccatcgggcc gggggcggtg gctcacgcct gtaatcccaa cactttggga gcccgaggcg 420
ggcggatcac aaggtcagga gttcgagacc agcctggcca acacggtgaa accccgactc 480
tactaaaaat acaaaaaatt agcccgggtg tggtggcaca cacctgtagt cccagctact 540
cgggaggctg angcaggaga atcgtttgaa cctgggaggc agaagttgca gtgagccaag 600
atcacactat tgcacttcca ncctgggcga cagggcaaga actctgtctc aaaaaaaatt 660
aaaactgacc atctagtcct tggcatctgg gcacccttna aaaaaagcct tntagaacta 720
tagtgagtcg tatttacgta gatccagaca tgataagatc cattggtg 768

<210> 1575
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 1575
tcagctctnt ttatatatgc aggatcccat cgttgcnnnt tctgcacgat cgtatcanga 60
nattcctgcn cttattcttc cttgaagtgc ccgagcatgt agggcaagaa aggaaggctg 120
aagcgctgtc cctaggagga atttctcctt caggggagcc tcagttttgc ccatttatct 180
aattgaatca gttttttacc caatcccccg attttgtagg gataatctcc cttatctaaa 240
gtcaactgat tatggacttt aatcacatct acaaaacact tccatggcga cagctagatg 300
agtgtttgaa taactgggac tgtagcccgt ccaagttgac acataaaact gaccatcggg 360
ccgggggcgg tggctcacgc ctgtaatccc aacactttgg gagcccgagg cgggcggatc 420
acaaggtcag gagttcgaga ccagcctggc caacacggtg aaaccccgac tctactaaaa 480
atacaaaaaa ttagccgggt gtggtggcac acacctgtag tcccagctac tcgggaggct 540
gangcaggag aatcgtttga acctgggagg cagaggttgc agtgagccaa gatcacacta 600

```
ttgcacttca ncctgggcga cagggcaaga ctctgtctca aaaaaaaatt aaaaactgac 660
catctagtcc tttgcatctg ggcaccctna aaaaaaaagc ctttagaact atagtgagtc 720
gtattacgta gatccagact tgataagatn cn 752
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<210> 1576
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 1576

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aatcaatttt ttagaatcct actttggatt taccttgttc tatagggaga actgagggaa 120
ctgcacattc atccagtacc tcagatgtgg atttcacggg tgcttccagt gcaaaagaaa 180
ctacctcgtc tagcatttcc aggcattatg gattatctga ctccagaaaa agacgcgtac 240
aggaagatct tggcctgctg caataccaca tttgcggaga agaagaggtc gtcttccaag 300
aagagcactc cagactcaga actcagaaat tgtaaaagat gatgaaggca aagaagatta 360
tcagtttgat gaactcaaca cagagattct gaataactta ncacgatcag gagttncaac 420
tcaatcatct aaagaactcc attaccaagt tattttggtg ctgcaggtag aatagcatgt 480
ggcgaaaaat cccgagtttt ggcacgtcgg gtgacacttg atggaaaggt gcagtntctt 540
gtggaatggg gaaaggacca actgcatcct gactgtaagg acngaacatt atgttccact 600
gcactctgat tttctgtang gtaccagttc caaaccccta aaggagccnn ggcttntact 660
atttttnttt taaaancaan antncncacc ncncttcncc ccntatntcc nntcnncccc 720
ccnnnttccn ntcccccttc cctnctnctn ctctnccccc acncccn 767
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<210> 1577
<211> 1000
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1000)
<223> n = A,T,C or G

<400> 1577

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ntcataatna ttnnnnnncn nnnnccnatn ttnttnnatc anntnttttt natatnanca 120
tattnttaca atnccttatt anannaatnt ntntntccnt nctttanaac ancntcntcc 180
nannaanttc nnntatttta attncctcnn acccnaccta ttncnattca anatntancn 240
aattnntanc tnnnnaatnt actaaacnca nacncatnac cactantacc tnnaatntac 300
atcannctat ttnntantcc cttatannct ancnttctta tcatantacn nctatntatt 360
ctactcttna ncatatctca nctcatcncn ncnaccntct atatntattt tnnttcncat 420
aaaattctta ttcttcaanc annaaaatca catttnattn cactatctca ataaaaantn 480
nnactccntc naatcctctc taacaatnat tacattacat atnaattaaa ntcantctnc 540
tnattcanaa tcatctattc ntcccactat aantatntcn tcttcantta tantantntn 600
nnattcnttc catttattan tctcantaca tactanatnt anctatcntc cnttccttaa 660
ctcnctactn cnnatanaat anaannttca aattcantaa tacantcata annctaaaan 720
acaaataatn taanttatan tcccacacca ctnanccnta taantattcn tntatattct 780
aatcatncnt ntattcttcn acnttttcat tnncannntt caantnatct antanatatt 840
tnttntannt cactcnntan ctttatnant anttntnttt tananacant ataccntcta 900
acnatnatct ttntcntact tnaantctnc atattnatca tnnntncatn atnactattt 960
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naaaatcnta tcacancttc tancacactn cnctntnncn 1000

<210> 1578
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 1578
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cacgggcagc ccctcctcct ctactgtgtc aggtggacca gggtcacctc tgttctgcgc 120
agctttgaga ttctaggatt ctacggccgg cacgaatggc atgggagggt tctctgcacg 180
ggacggcata acggcatgcc atccttcagg ctggcaggag cctgcgcagg tgtggcaaaa 240
tcttgaaaca gcctgtgtcc tgcctggctt ttcactttcc tatttaatat aagaaagcac 300
tttttttct gctttaccta caaatgggtt gaaaatggcc tcctctgtcc tctcccctct 360
tttatacact ctgtaaaatc acaaaggtgc ttcaacaccg actgtcatgc agtgctgttt 420
tgtgaattgg cagtttctgt ataaactctt atttatataa naaaaaaaaa aannnnnnnn 480
nnnnnnnnnn nnnnnnnann cccccccccn naaaaatntt gggggggntt tttccgnnan 540
cccnaactnn aaaaaaccnt tgggnnnntn ggcnccnccn cccnnnaaaa nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnc 727

<210> 1579
<211> 1039
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1039)
<223> n = A,T,C or G

<400> 1579
ccagccanaa nacngngana aaaggncnga cgnanacaga nnncgannnc gacgccngnn 60
gaanaagcan anancacccc cccaggcgtt ggaacccttc anagncgacg aaggcagacc 120
cacgancgaa ccggcacgag actgannaga ncnggcncga aaaagtgtgn gccatactga 180
gacccacggg cagccncncc gccnctacag ngncaggngg accagggaca ccncnggacn 240
gcgcannacn gagaannaag gaancnangg ccggcacgaa gggcaaggga gggannnctg 300
cacgggacgg canaacngca agccagcctn caagcnggca aganccagcc aggnggcggc 360
aaaaacaaga aacagcccga ggcncagccc ggcncncaac caggcccnaa ncaagaaaag 420
anaagcaccn gngcnggacg gcngnaccca cacaacgggc acgnaaaaag ggcngcccgc 480
gnggacacng cnnnncatng gaaaccaccn ccnggnaaaa ancaccanaa gggggccngc 540
anaaaacccg aacngggganc aagngccann cagnncgggn aaanaggang naaaaacngg 600
ccagnnngcn accgnggaaa aaaaaaacgn cnccnnnatn gncgcnncnn cnnncacggc 660
aananaccan agcgggacag acanngancg canacanang cgancggaga ananggaaag 720
aagggagaca aaacagcang anngacgaan anggnacacg cnacacgcac agcgangnng 780
nancaaaagn anncncngca nnannagngn gnangcaaaa naacgcgang agannagana 840
gnggacgcac nngcncacna ganggcgnnc ngacgnnncc ccaaaacgac nnacgnnnng 900
gagcaganaa cgacgcacna naaaggacgn anganncann nccgngaana aaggnagaaa 960
nngnngnacn anggcgacnc caggagacaa canangnnaa agcnaagccc cnagnacaaa 1020
agcaccaaaa naancnccg 1039

<210> 1580
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 1580
```
gcnntttgat ntncatacan ctacttgttc tttttgcagg atcccatcga ttcgaattcg      60
gcacgagctg ccttccaaca aaatcgtcaa gcgggcagag gagttggtgg ggcaggagtt     120
gccttattcg ctgaccagtg acaactgcga gcacttcgtg aaccatctgc gctatggcgt     180
ctcccgcagt gaccaggtgc atcttcagcc tgcatcccct tcccaggagc caggccactc     240
cctcagctgc cagaggctgg gtccctgctg gggccagggt gggatggaaa tagacatgag     300
caagacaaaa tagcagatat gaaactgttg tccttgaggg tgtcacattt ggggtgggga     360
caagggtggg gagataggca agtcggcaat gtagaccagt gcagtgggtt gggggggtggc    420
cacagaaggg agtcacagcc tgaaacagcc ctccacagcc ctagaggccg gctttatgat     480
tcccacttta cagatgggga aactgaggct caccgtgctt aagtaacttg tccaaattca     540
ttaaactcct agttattgag tctctagtcc atgtcancca tggtgaagaa cgggggagtt     600
aaacctacat gtgttctctc caagggcccc gatcaaggaa agcttttgta gaaanangtc     660
acacccgagc ccacctgatt taattatttt gattaatctt gaaaaaaaaa tgaacctgga     720
gattaccagg gaaccggggg ccaataanga agtgtagct                            759
```

<210> 1581
<211> 980
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(980)
<223> n = A,T,C or G

<400> 1581
```
nntnntnnnn tnnnnnnttn tnnntnnnnn nnnnntnnnn nnnnntnnnn nnnnnnnnnn      60
nntnnnnnnn nnnnnnnnnn ncangnnnnn nnnnnntnnn ntnncttntn nnnnnnnnnn     120
nnnntnnntc cccccccncc cnnnnccccc ccccnncnnt tnnnntnnnn anganntacc     180
agtaggancg aagttatnct accacatgaa tnatnntgcg gncttgtang agttggtggg     240
gcaggcagnt gccttattnt ntgaccngng acanctgnna ncacngggtn annnntntgc     300
tctntggcgn nnccccntgt gaccaggtgc atcttcagcc tgcatcccct tcccaggagc     360
caggccactc cctcagctgc cagaggctgg gtccctgctg gggccagggt gggatggaaa     420
tagacatgag caagacaaaa tngcanatat gaaactgttg tccttgaggg tgtcacattt     480
gggggtgggg acaagggtgg ggagataggc aagtcggcaa tgtataccat tgcagtgggt     540
tggggggtgg cccacanaag nggagtcaca gcctgaaaca ccccctncac agcccttaga     600
ggccgggctt ttatgattcc cactttttaca ggatggggaa actgaggctt caccgtgctt    660
aaanttactt gtnccaaatt cctttaaact ccctagtnnt tgagtctcnt aagtccattn     720
tcagcccatg ggtgaaatag ccngggggggg aatttaaaac cctacnttgt gttcttttcc    780
caaggggccc ccgantcaaa nggaaaggct tttggtatna agaanggtca ccacccccga     840
gccccagcct tgattnttaa atnattttgg ttttaattct tgaaaanaaa antgaactng     900
ggatattacc agggaanccn gngggccaaa tttaatggan atgttttngc cntaagggaa     960
ccancctgtn agnccnngcg                                                 980
```

<210> 1582
<211> 1336

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1336)
<223> n = A,T,C or G

<400> 1582
```
aggnnngnnn nnnnnnngnn ngnnngnnnn ngngnngnng ngnnnnggnn nnngngnngn      60
ggngnggngn nngnnnnnnn nnganngngn gnnnnngnnn nnnnnggnnn nnnngnngnn     120
ngnnannnna gangnnnngn nngnncnnna ngangggngg nngnnnnnnn nnnnnnnnnn     180
nnnnnnnnnn gnnngcngnt angntgggaa aaaanccccc ntttttgggg aagaaanann     240
cccccccnggn ntncttttttt tttgggccnn gggggnaaan cgccccaann ccgggggaag     300
ggggcgggnn aanatgtgnc gggggncnaa ccggnaaggg ggaanggnga nagnnnngng     360
gganannnng nnnggnnagg ggnnnnnngn ngnnttttttt tttntnnaan aggccnagnc     420
gangnngggg nnnnggnngg cngnnnnaag ggggnggggg ggggggagnt angggggcan     480
gnnnaggggg gncantancn nanggggggnn gngagaacgn naaacaacac agggncnngg     540
aanggaggng gnnnagnnng nnngagnnac gnggcgnnng gngngnaang ccnncngggg     600
gcngggngan gngnananca ngggnnanag nagangggag gngggaaagg gnggggccgg     660
aantgnngga gnggcaaggg angnnggganc ggagggangg gggcgagagg angagccnat     720
cgagnggggg naggggngac aggaanggan aagnangggg gnaaggcgng aancgaaggg     780
gggggnatga ggaggagann gngagngctg gggggaaggg ggnanngggg gggggnngnn     840
gagnnggnna gngggngggn ggangangat gggagcnaan cggtggacaa aacggcggcn     900
caggnggggc aggnanaaaa gggccgggag cggngcngng ggggaggngc ggnggtgtan     960
gaggcaggna aattganngg gagacnnggn gngcgnngga gggnngaana gngnnngaan    1020
naagacggaa cnaagtggag gagggggnan nnggcgcagg agagngaggg ngtanggnag    1080
anananangg nnaggacngg ngncgnggng nngagtgagn ggcgcgangg agngngaggn    1140
gagcggngan ngagggnngg nacggggatg gggangncng ggggngnnnc gcggggcgtg    1200
gggacnccng gggggggggg gggnnaagnn ancnnggggg ngnannagan gangggngnn    1260
cgntgcnggn gngggggggg gagagnaang agnacgnggg gggggnnacg nnggggnnga    1320
gngcgagnnn gcgcgg                                                    1336
```

<210> 1583
<211> 1328
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1328)
<223> n = A,T,C or G

<400> 1583
```
cttatgnnag atcttatcnc nntaactnga catnnaanan gnagtnnntc nctagccnat      60
taacacattc cgatntntat taaccnccnn ccnncccncc ccctcnnnnt tccaaagnta     120
aatcgnggga gaaaatctcn ttcggncccc nntgnanttt gntagagana atgtntnttg     180
ctatggttnn gnggggnnngn ctatcttttt actnggggna ttttatnntn ntaacacatc     240
tntgaangct atcctacctt actnnanatn atacgagnaa atcatgacca cttcnnatga     300
cnnnaaacat agannncacn accccttctnn ncgagtannn ctcctagnac ttattntata     360
ngtagnatna nnaaattcnn aatnatttcg nacannnctt ttannttann tagnatnaga     420
ctnattantt ancgattnat ntatactata nnctanctnn ncacntagca nacttgnnan     480
acaggcagta cctagnctna ttcngctcag cacanctnta atccaccagg aaanaannat     540
ataanncnan cntgtaatat cnttttttatc nctnnncact ggnatcannc nncatntgat     600
tcatcatacg aatntatatt tcnntcttng gcatnatatn nattcatnat annncgctct     660
ncnanacacc acatanataa ntatagngct atatnattaa attcncaatc tggnacnnac     720
```

```
naanttaana ancanctanc tacacacaca atcanaattc acataatgac ntantntcnt    780
nacanatana tanctaatnt agaaagnntt attctgnnta ncccncnctt aatntngcnn    840
tctcgnttnt gnatnncgat aanannaacn nnatnttatn tntacanaaa atagnacata    900
tggcnctaca tctacgtatg cgcatacacn gncttatgaa nntncncacg tgnacgagac    960
ntactancac angtaanann tcttcncnan tnagngctan tntcacatna cacnntctag   1020
anntaactna ttncacagan catacntctt atcannatnt taatataacg nacnncncat   1080
tcatcacatc ananctaaca nagantgtga natatanact anctaagttn attaaaacat   1140
agttacatnt nnatatnant ctnancntat atcgnctcct atnttanctt cnctcnatnt   1200
gcaantgtat caatactcat nactanagna ttctntctct atattttaat tttcntntnn   1260
tatannttac ntantcntca caccctatac taagatttna tnanantctn atctanccac   1320
tanatnnn                                                            1328
```

<210> 1584
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 1584

```
caccccatcg tgtacttaac tgtgcgtgac gtgtgctttt ggtangcatc actgtgccca     60
agtatttcat gtncattgta aagaggaaaa atacagattt ctctataatg tnaccactta    120
tttctaattg ccacttttca tcttgtggaa atgccatgtt ctgattcant cttctgaatt    180
tgaacattat tcaggttatt tccaattgct gggaatatcc ttactgctaa aataaancct    240
tagcattgga attgctaggn caaagattat gcatgctttt taagggcttt tgaaatgtat    300
tgccagtctg tggcctgcca ccctccctga acatgcctgg tcttgcttaa aatgtattgc    360
cagatantcc ttgggaagtt catgttgtct ttaacaatgt gaaatagtac nnctattcac    420
nttccttttg tctgacaatt nngataagtn aataattgtn tcccaccatt ntgtagtann    480
ggtttttaac ntggaaatcc naatcaatac ctgggctgaa gcatcagtgn ttccacccta    540
cctanccaaa aaaaggattc nagggtattc cnncaatcag tacctgccct aatatattan    600
agcccttacn gganatnaat canaanangc ttttaaaaac aaanaanccc nggacnnggc    660
cnttttacnn aaatgccccc ngcccntntn aaaaagnnac tnggntttta angnnatnga    720
aaatggcctt tgggcncgtt                                                740
```

<210> 1585
<211> 1003
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1003)
<223> n = A,T,C or G

<400> 1585

```
tttttttgaa acctttnnnn ntngaatacc nanacaaact ctgnntgtct nngcgggatc     60
ccntcaagtc cnatncggcn cgagcncanc tttntnnann tgtcgcgtct gagcccatga    120
gncacgacnn cnttcnccgg cgcctgnatt gncatntctc ccaaatacgt ggctnntccn    180
cantnngaat natcgnnatt tttagtgcca gannattggc nataatgtnc nccntgagan    240
aaannctnct gncatgngaa accatcttna tacttgncgt nncnaaatnc attgtgannt    300
ntgaagggga acgggcnctn nnaaagngat gaatttcnna taacttnacn ggttnatnan    360
gaatgatttt gcncacancc ggaaaatcac cccactnntt tgnttcaaga ntgggcccct    420
aacgggaggg gtantagagg caaaccntct ttgcgggctn ttntatttcc tttnttcaaa    480
```

caccaatntt tgntgaanaa taacagtgtt ttnaattnaa ttaccaccgc ntncantgng 540
attntttgnc ccattncaaa ggntgggtca attcccctaa aanaattggg aaaanantaa 600
tttnccattt cnttttttccn ttnaaangaa accntnccnt gnanttaaaa aaanattctn 660
tntnnttccn caaatttttt nnttttnaaa ccnctnancg gctaaccagg nccgnttttc 720
ggtgnccctn tttattgttg gccanntaaa nccccntttt aaaaaaattg gccttnaaaa 780
aatccttacc atttttnnna ancctaaaaa nggattaaac tttcaaancc gtnaantaaa 840
tttnnggggg ttcatntnnc tttgaactcc ccctgcntcc cntanaattn gaattgncac 900
attggtngna nccaaantat ggatntttca agannaanac tgggcttnca aatgnctttt 960
ttcancnaat nanntnatat tgccattttg nggccccccc cnt 1003

<210> 1586
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 1586
actttcnaat cgcacgagag acantctcct gcacacgncc ctgtgggaaa agccagcttc 60
tgtttgcact ggtcttnaca actcgttacc tggatctttt tacttnnttt atttcattgt 120
ataacacatc tatgaaggtt atctaccttg cctgctccta tgccacagtg tacctgatct 180
acctgaaatt taaggcaacc tacgatggaa atcatgatac cttccgagtg gagtttctgg 240
tggtccctgt gggaggcctc tcatttttag ttaatcacga tttctctcct cttgagatcc 300
tctggacctt ctccatctac ctggagtccg tggctatcct tccgcagctg tttatgatca 360
gcaagactgg ggaggccgag accatcacca cccactacct gttcttcctg ggcctctatc 420
gtgctttgna atcttgtcaa ctggatctgg cgcttctact tttgaggggc ttctttgacc 480
tcatttgctt ggtggtggcc cggcgtagtc canaccattc tatactgnga ctttttttcta 540
cttgnacatt acaaaaagta cctcaaggga aagaaagctc aatttgccaa ccataagtgc 600
ccaaaaccca tcacccacat ctgttccttn nagggtgctt cggacagaat tcttacacag 660
caaaaggcat aaagangctt ganccggaaa ataanaaact taactctttt gttccnaaaa 720
gncatcaang gctcctttan 740

<210> 1587
<211> 651
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(651)
<223> n = A,T,C or G

<400> 1587
ntgacattgt gattgcaaaa agcccaagtg atccacantc aaangtntga ctgnganann 60
aactggnnat gagncaatga acttnttgaa gacatcactc ctctaataaa tgtggatgaa 120
aatgtggcag aattggttgg tatactcaaa gaacctcact tccagtcact gttggaggcc 180
catgatattg tggcatcaaa gtgttatgat tcacctccat caagcccaga aatgaataat 240
tcttctatca ataatcagtt attaccagta gatgccattc gtattcttgg tattcacaaa 300
agagctgggg aaccactggg tgtgacattt agggttgaaa ataatgatct ggtaattgcc 360
cgaatcctcc atgggggaat gatagatcga caaggtctac ttcatgtggg agatataatt 420
aaagaagtca atggccatga ggttggaaat aatccaaagg aattacaaga attactgaaa 480
aatattagtg gaagtgtcac cctaaaaatc ttaccaagtt atagagatac cattactcct 540
caacaggtat ttgtgaagtg tcatttttga ttataatcca tcaatgacaa cctaatacct 600

tgcaaagaag caggattgaa gtttccaagg agagattctt cagaatgtaa a 651

<210> 1588
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 1588
ccaaactaga agctgtcagt gacaataact tggaattagt caatgaaatt cttgaagaca 60
tcactcctct aataaatgtg gatgaaaatg tggcagaatt ggttggtata ctcaaagaac 120
ctcacttcca gtcactgttg gaggcccatg atattgtggc atcaaagtgt tatgattcac 180
ctccatcaag cccagaaatg aataattctt ctatcaataa tcagttatta ccagtagatg 240
ccattcgtat tcttggtatt cacaaaagag ctggggaacc actgggtgtg acatttaggg 300
ttgaaaataa tgatctggta attgcccgaa tcctccatgg gggaatgata gatcgacaag 360
gtctacttca tgtgggagat ataattaaag aagtcaatgg ccatgaggtt ggaaataatc 420
caaaggaatt acaagaatta ctgaaaaata ttagtggaag tgtcacccta aaaatcttac 480
caagttatag agatccatta ctcctcacag gtatttgtga agtgtcattt tgattatnat 540
ccatacaatg gccacctaat ccttgcaaag aagcaggatt gnagttttnc aaaaggagag 600
atcttcanat tgtaaaatag agaagatncc aaatgggngg caggcttncc catgttaaaa 660
aaaggangga aaccnctggt cttcnttnca agccaattnc tgggaanaaa aaaaaaangg 720
cttttgttaa aanaaactgg ggacaattca agganccttt ttgggggact ntaagttgcc 780
aaaaaaaaaa aaaaaaaaac tcggnccttt taaactntng 820

<210> 1589
<211> 690
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(690)
<223> n = A,T,C or G

<400> 1589
gtatcaatcg cngtaacctg ttccccttgat cntgagtttt agctcagata accaggtatt 60
ttgaagacgt gattgtcctt ggccctgccc catcccttcc ctttaaagtt ttaaattttt 120
ttcatgtctt ttctttggcc agaatttctc tatcccctgc atgccttcct cggttaccat 180
aaatctgcat tatcctagga aagatgaagc ccacagattg tacgatttca gagtacttcc 240
tgggcccctg tgtgatccga cagaggcctg gtcatcaagt tggacttccc tatgtgaaac 300
cataaactaa cctgaggaag atactgaggg gagaggggct gtgtaacggt gactgcctct 360
aggccagcct tctgccaggc agagaacagg aagctggcat gcagggtgtc tggcactggt 420
aaaatgacac catgtttgta agtgcattgt cctggctttt ggtgggccgt gcaggagttc 480
ctgcctgaat tatagtcttt ccatctcata tcttcatgtg gagccctcaa gctttaaaca 540
aagtcttttt atctccggtt ttcaagggtg ggctcccatt atctttgaga acctcataat 600
gctgcttttc ctttaaattt ngttttacac ttgnccgctn ggtcagcaca agagctactt 660
cacatttnt ggnccccac ntcggnttca 690

<210> 1590
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 1590
acnttcaatc ggcacgaggc tngttctggn gaaagctcan taagtatgga ttttattcct 60
caactagtag gataccaata ctggtattga aacttgggga aaataactgg agataccagt 120
gcagctattt aaagctgtag caagggctgc aatcttgcgg agattttaaa gagaagtttt 180
aaagtttcta atactgatgc ctctttttgg taaatacaag ttttataaat cctgccctgg 240
gatcctgatt ccccattaat caagatttgt cagacttcac cttctataat tagaaaacac 300
agttataaga acagtcaatt ttttaaattt tccaaattaa aaaattgcac catgattttg 360
aacaagcact tccaattaca ttacccatct tgtatgccat aggtgggagt ataattgtca 420
cagcctttag gaatgtagtt ttccgggatt tattgaaact ttgaaccttt tggcctacta 480
agttcattcc taggaaactg cctaatggga atgatctgac aagtgtacac aagcaaagtc 540
attgcacctt tggtctttaa tacttaaaac taacccaaat gcccttgcag taagggactg 600
gtttaataaa tggtanccctt tatgccaatt tgttctaaag tattcgttta agagangtgg 660
aggaatctct tggattatta gggcaagaat tctaacttng gtaaaaaaaa agtggtgcaa 720
gcatttt 727

<210> 1591
<211> 460
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(460)
<223> n = A,T,C or G

<400> 1591
ttcnaccagc tcttgttctt tttgcaggat ccctcgattc gaattcggca cgaggcttgt 60
tctggggaaa gctcatataa gtatggattt tattcctcaa ctagtaggat accaatactg 120
gtattgaaac ttggggaaaa taactggaga taccagtgca gctatttaaa gctgtagcaa 180
gggctgcaat cttgcggaga ttttaaagag aagttttaaa gtttctaata ctgatgcctc 240
tttttggtaa atacaagttt tataaatcct gccctgggat cctgattccc cattaatcaa 300
gatttgtcag acttcacctt ctataattag aaaacacagt tataagaaca gtcaattttt 360
taaattttcc aaattaaaaa attgcaccat gattttgaac aagcacttcc aattacatta 420
cccatcttgt atgccatagg tgggagtata attgtcacag 460

<210> 1592
<211> 516
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(516)
<223> n = A,T,C or G

<400> 1592
ttcatttann ctnttttttt gcaggatccc tcgattcgga agagcttctg caggggctga 60
gcagacccca gggcctctta gccaatcccc gggcctggtg aagcaggcga ancatatggt 120
cggaggccng caactacctg nacttgccgn caagagtggg caatcttttn tgtctctcgg 180
gaangnccca annctcctcc cccaanttga nanaaaaagn aagttntggt naacccancn 240
taagccataa gttcccctgg ggcccctggg ganaaagnct tcaatcacng ggccaagggc 300

ttctggnccc cattnattgn cttggacaag aactctgggt cacaagtctt gctnggtctt 360
gctggggaan cccnaccnga cattgggccn cagacttgct ggtcttnttg ggaagaaggg 420
caagacccca aaccaagatc caaaatacac ttncagctct taaccaaggc ttnctttcaa 480
gtcacaagtt gttgccngaa atcagtaaca agaagt 516

<210> 1593
<211> 1207
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1207)
<223> n = A,T,C or G

<400> 1593
agattntcga atcgcacgac ttgnccctgt ggggtcttac ncgatgtgtc tctgagtagt 60
aaaggcttag ccttgttcct gttatgttgc aagaaggagg ggaaggttcn gngatttctt 120
ctgatttatt ctnnggntcc atgtganccg gccntcacgt gnanccnncn gcacngnacg 180
ctcctnncgn atccacatac nccagntana cntnctnnnn anccaccacn cccanctgcn 240
antccanntc ncccaacgcn cangcntnag cctntanncc ccccaccctc ncnnagncct 300
actacaccnc cattnnancc nnccccnaan atcaccccct ttcctaccat cgtcnnanca 360
cnncccatct acantcnncn annaccgnnt nnnccnccag tnatcanttc actcntaccc 420
ncacgcctnc anngnncnaa ctctnccctg ccaatcatgt tctanngcan nncncnnctc 480
ntanccctact catcntatta aacttntctc tttncnctnt gcnacatnan actcctcttn 540
ngnctnnctc atnatccgcn ctacactcaa cattctgncn nnatnctatn ngnaccntaa 600
aatacccntca cataatcntg acgcacatcn ntcnctacna atcnattgtc atnntnatct 660
ccncctctnt accatantct ctcntaacag tnatntctca ttctcaaact tcgccatnnc 720
ccacnantnt ctcttacgca cacnntccta anccctatnc ataccattna atnncctgcc 780
ttgctatgan annencngan cacntacaca nnntgtancn aactanatac aantatcgct 840
ccctctcact aacnnctnnn cntaatanaa cataagccnn nctancgnnt cntnntnaca 900
accacatnta ctcttacgca ctgnnntctc tctttnggnn tcctctttcg caacgnctca 960
nnantccaca cgntccttac gcccatcatc ctnnccctac agtatgtaat cccntanatt 1020
nntncanata ttcatcncca ngcccgctac tgataccttc nctgctacca tcnctccccc 1080
tatanttncg tctcgnacca atctacgtnt acacngttnc ananccaata ancnacctca 1140
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taanccc 1207

<210> 1594
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(466)
<223> n = A,T,C or G

<400> 1594
tntacgttca agctcttgct ctttttgcag gatcccatcg attcgatgcg cttattaggt 60
attttatctt tcaaaaatat atgtncccaa ctgtgtttgt ttgtttcctg actgtgaaca 120
ctgaagagga ctagatcaaa aatgaccaat tgagtagcaa ttgaacattt acagtgctgt 180
gtgcagtgaa cttctgtagc acccaaattg tggggttggg gaaaaaccat tccaccttaa 240
aagaaaacca agcctttctg gcaaaattgc tgattctagg ttttggccaa gaaatgtaca 300
tgctgactgg aacattgcat aacagttagt aaggaggctg ttaaagacta tttagggtca 360
tttcagaaag actggagaaa tgactgtaga attcccactg gcccagagat cnggtagaaa 420

cctgtgaagt gtgtttaaat tcttgagttc ataatgggta ttttaa 466

<210> 1595
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(723)
<223> n = A,T,C or G

<400> 1595
aggttttcga ttcgcacgat atntntcaca tgttaanaan atatgtaccc aactgtgttt 60
gnttgtttcc tgactgngaa cactgaagag gactagatca aaaatgacca attgagtagc 120
aattgaacat ttacagtgct gtgtgcagtg aacttctgta gcacccaaat tgtggtgttg 180
ggaaaaacca ttccacctta aaagaaacca agcctttctg gcaaaattgc tgattctagg 240
ttttgggcaa gaaatgtaca tgctgagctg gaacattgtc ataacagtta gtaaggaggc 300
tgttaaagac tatttagggt catttcagaa agactggaga aatgactgta gaattcccac 360
tggccagaga tcggtagaaa cctgtgaagt gtgtttaaat tcttgagttc ataatggtat 420
tttaaaaagg aattggttac tcttagatta gagcatgata ggaacaaatt tattaccttg 480
aacattggta aatacaagaa agaacaattt atcctgcttt tcctatgtga gtgtacctct 540
ggctaacaaa atagtagata tgggagagct atttcaattg ataaatgaaa aaagaaatgg 600
cagaattgca ataccaccat tttataactt ttggtgaacg aatgggtcta ngtggtgagc 660
gtcgatngct actacatccc cnnnnaaaaa annnnntnnn nnnnnttnnn anangaannn 720
nct 723

<210> 1596
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(464)
<223> n = A,T,C or G

<400> 1596
cttnnttaga tacagctact tgttcttttt gcaggatccc atcgattcga attcggcacg 60
aggattcatc ttcttgttct ttaaaagtca aaaggctttt tgacctttaa ataactctta 120
catctggtca tcactgttga aatgttctac taaattttca gagtggaaaa gttttaggct 180
taaaactgac tggtaaaaat agaatatttc tttgtattga tttttcagta tagctgtaca 240
gccagttatc cttcgttaag tgtttcggta ttaaaactgc tcacatttgt aaatattgag 300
cagctttatt gtcagaacaa gaatcccttg gtttcccaat ccccaacttt taacattgta 360
attaaacatc ctgtataacc tatttattc tctgccaaac aatttatga ctgctgtttt 420
tactctttgt gatgaaaatg ggatggagaa gataaggttc tttg 464

<210> 1597
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)
<223> n = A,T,C or G

<400> 1597
atgtngacca nttcngcacg aggattaatc ntcttgttct ttaaaagtca aaaggctttt 60
tgacctttaa ataactctta catctggtca tcactgttga aatgttctac taaattttca 120
gagtggaaaa gttttaggct taaaactgac tggtaaaaat agaatatttc tttgtattga 180
tttttcagta tagctgtaca gccagttatc cttcgttaag tgtttcggta ttaaaactgc 240
tcacatttgt aaatattgag cagctttatt gtcagaacaa gaatcccttg gtttcccaat 300
ccccaacttt taacattgta attaaacatc ctgtataacc tattttattc tctgccaaac 360
aattttatga ctgctgtttt tactctttgt gatgaaaatg ggatggagaa gataaggttc 420
tttgccttat ggtggtattt attatcatcc tccatcaatg cagattgggt aaatagagaa 480
aaattcangc cgggtgtggt tgtgcacatc tgtagtccca gctgcttggg angctgangc 540
angagaatcg cttgaaccca ggagtcagaa gttgcagtga gctganattg cccactgcac 600
tccagctgag cacanggtga aactctgctc aaaaaaaaaa aaaaaccctt naaactatgg 660
ggngcntttc cgaaaccnaa ctganaaaaa ctttgtgagt tgccncccct 709

<210> 1598
<211> 1372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1372)
<223> n = A,T,C or G

<400> 1598
nacntantan nttnatantn nttctntnat ntccnntncn tncntctcnt tgnntnnggt 60
nnntnnntnt tnttcngttt nccccccccc nnntnccccc tttntntttt ttcttttgnn 120
nccgtagacc gngtgaaatg attngctgng ccncccggta tgttattttn ntatatgntt 180
ncnatncatn anttttteta tgngncnnca cttttctacc ntntnggggg tgtttttan 240
ctccattann nattctattn tnnnacttct tgattantat nangtctttn tcttttnncc 300
catcntntnt cttnnncact gtnnanctnt tnntccctnn ttnttatctt nnnttttcntn 360
ttacntaaat tctctcnntc nttatttntn tcttcatctn tntngcnttc catttntttn 420
ttttntcctt tncnnnctnn nnttcttta ctcttnccnt ctnctcntnc ncctnctnca 480
nntcattttt tcttanctat acgcgttatt aagnnnncta ctncgtnctn natatnttnn 540
tactatcnnn ntcncttttg ntnnagtnta ntccctnnng tatttctcnt nnngtctatn 600
tgctntatta tttnnntnct gtntntcttc tactcncnat atcatnnacn atacntatat 660
atatatacan cttgtttcta tntntancta cataatgttc ntttantctt ntttnttctn 720
ctagtatgtt ncttnattat ctanttcntn tttatntatn ctatcttctn atnattntnt 780
catacctnta ttcgtatata nagnaactcn acatgntang tgtccnttnc natctcannn 840
nttantcttt ncattcttnn gttatctgnc gtnttncntn tnacntgata ntcatatnnc 900
cntnancnta tatgatgaat cacgntgtct ttntcaagct nnnntctctc tttccttctn 960
tnnataaact tntgactcng tagtttactt gatcttttcn atntctnaac atcactccat 1020
tcncttncgt cnngnacnnc tctnttctnt actattcttn tctactcctc tnctctnttn 1080
gttanttacn cctccgatnc tnttanttct cacnntncnn attttctaat gtantntntg 1140
gtatatttct gntatctcta canccgatcn nanctacgtt cgtatagtat nctaatantt 1200
gatntnatct antgttnttt tatcctncnt tcntantnct ntttacatna ctctntttnt 1260
ctgttttctt tatctnctat ngtnaanttt cctatgngta tnatncngtt nctctctann 1320
atttcatctt ctatctntan ntctcattgt atgcttcttt ngcttcttcn cn 1372

<210> 1599
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(464)
<223> n = A,T,C or G

<400> 1599
tngatncctt cgatcagctc ttgttctttt tgcaggatcc ctcgatncgg cctatcttag 60
agaatcatct gctcanncct tattcctgca gaatacaaat gtcacattct aacctgttca 120
gagattgtct tcaanataaa antgtgattc ctacatggna tgnnaaacaa nctacactnn 180
tnggcaaaag gcattattag ggntngattc cataatgatt gagtnctntt nnnnagtata 240
ntcatgcanc tgaacaaaat gaagctcatt ccactgcntn gaanaatnnc acaaatgtga 300
tgctnaanan aggaagccac gtgcanacac tnactatata attntatgta catnaagttc 360
agnatccgga tagttaccnn tgnnaaggan gtaactnnan gagtntgagg aggggnttct 420
ggtatctggt taatgnactt ngtaccantt acccaanagt gnnt 464

<210> 1600
<211> 922
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(922)
<223> n = A,T,C or G

<400> 1600
nnncnntacn cntnnnnnnn nncnnnnnnn nnntnntnnn nnnnntnnnt ntnntnnnnn 60
nnntgnnttn tnnnnnnatn ggtnnnannt tntnntntnn nattacntnn nnnnncnntn 120
ccccccacgn nnnnnnnccc cccntcnntn ttnntnntnn ttnaatntcg antccgcacg 180
gaggatatac tacttatggn acantgaggg tgcaanggnn tcctannatt catgnggatg 240
ntccnnggtg tgaggaggga atctgcaatt gnttgctnna cagagcgctg gcaacttctg 300
acaggctgtt tctggggtat gggctgcctc gggttgttgc tgttacaagg aaagaaaaga 360
gttcccctgc ccaccgcctc ccagccactg ggctacctcc tggcaggaaa tttgcaaact 420
gagtttaaca agttaggatc agcagagggt agaggagggc cctggcagat gtggggtcta 480
gaagaggaca ggagttatca gggcctccgg ccattgtgct gggcctttgc ctgtacaatt 540
gtttctcaag cagttgtgtc cctgtggctt tggtgcgcct gtgtgcactt tctccctcca 600
ccttggagca tgggctaaca cccggaggaa aaggaaaaga cagagtcaag acaggggaca 660
atgaaacctt tgaagtgccc antctatgaa agaggcccgg gggtgggact aagaatccan 720
tgccgcnccc aagagtttga ccaaccaccc ccctacagca actnttgngg atccccccat 780
cacctgaggg aggaaccaac ctacccattc caaaaggggt ccaagggata agcccaaacc 840
tggggaacan aagcgaaang gcctccaaag gggggtccat tnggccccag gaagggaanc 900
ccttgggaaa aaactcccan nt 922

<210> 1601
<211> 864
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(864)
<223> n = A,T,C or G

<400> 1601
ttgaattcca tacaagctac ttgttctttt tgcaggatcc ctcgattcga attcggcacg 60
aggagggagg atcccctggg ttgtgcatat ggcgggaagg ggtattccag gagtggagga 120
tgtcagcagg gtgggaatgg gatcagtgag gggaggagga gcagaggagt cagaaggatc 180
taagggtagg gctgaaggtg ggaaaacacc tgtagggctg tttaggacac ggaaagggcc 240

ttgactttgc tgccaacnaa gatgtgaagc tccaggcaag ggtaacaatc taacttacat 300
tttatgaggg tcctgtggca gctgtggtga gaacagactt taagggtgct gaggtggatc 360
acggagacct gtggccaggc tcttgtgtgg taaatctggt ttgggagaat ggtggagaac 420
tggatgcang tagganca‍ct ggaagtggca agaaatgact ggattcttga atattttgtt 480
caaaagttgg anccgaaccc cggttttgtt tgatggacct tgaattgttg gggtgttgat 540
taagaaaaga agaaggangt tcaaaggacc aattttcttg naaggnatct ttaanntccn 600
ggaagccaan ccttggnaaa accaaggaaa ggncttgcct tgttnnaaat tggnaaaaaa 660
tngggaaatt gggaaaaccc ttggggtttt tttggggttn ggggggg‍nat tttttcaaac 720
ccccatttgg ggatttnccc catttccant tttttggang ggnnngtttt ttcnatttca 780
aanccaattt ccccttaaan tgggggtngg naattaattt ggggaacctt gggggg‍cccc 840
aaatttttng ggaacctttt tacc 864

<210> 1602
<211> 619
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(619)
<223> n = A,T,C or G

<400> 1602
ttgattcnat acaactactt gttctttttg caggatccct cgattcgaat tcggcacgag 60
aagagacagc ctctctcttc tgtctcagaa gctctgtgtt tgggaaactt tgagcccatg 120
gagtagcagg gtctgcatgg tggagtacca ggtttccctg gcaatccagg tctcctntga 180
ggaagcattc tgacttccca ctgaccacgg aaggcatgtc agcttcntgc ctcggnctag 240
agttctgata atcggggctg aggggtgaaa agaaatccag tcagacagac agtgggggag 300
acaggtccct gccctttatt tgccgggatc aatcagggac tcccanaaag gaaggagaat 360
ggtgagaagg ccctaagagt tcgtctctca cctggggctg tgacgtggca ccacaactga 420
aacagctatg ggtggcggtg tgtgttaacc tcacgtnctg aactgacatt gncaaagagg 480
aggagtntac attcagatgg caggcgttca ggaacaacac attattaatg gctagcagtg 540
acatatgaga aacagatctt atatctccag gtagcaccca nctgttgttn tcatatcttg 600
agaganaatg gatannact 619

<210> 1603
<211> 721
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(721)
<223> n = A,T,C or G

<400> 1603
ttgaannc‍ca tacaactact tgtctttttg caggatcttn tagacctttg tgaaccagat 60
gatgaaagtg gctatgatgt tttagccaac cccccaggac cagaaagacc aggatgntga 120
tgacgatgcc tntagcggat gtgtttgaat ttgantttc agagaccccc ctnttaccgt 180
gttataacat ccaagtntct gtggctcagg ggccacgaaa ctggctactg ctttcggatg 240
tccttaagaa attgaaaatg tcctcccgca tatttcgctg caattttcca aacgtggaaa 300
ttgtcaccat tgcagaggca gaattttatc ggcaggtttc tgcaagtctc ttgttctctt 360
gctccaaaga cctgggaagc cttcaaccct gaaagtaagg agctgttaga tctggtggaa 420
ttcacgaacg aaaattcaga ctctgctggg ctcctctgta gaagtggg‍ct tccaccccag 480
tgatctggcc tcagacaact actggtgagc aagctggccc accatgtaca gtgtggtata 540
gtggttaatc cttgtgcata tgtgcataat acaactattc tgnnaagaaa ggcactntac 600

atatgaaaat atttnttntt tatataagaa aaattactcc agtcagaaag gacttaaaaa 660
catgtttttt tcctttttaa acttttaaag tcaagttttt atgaaagtgg gttttaatng 720
t 721

<210> 1604
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 1604
ttngatacag ctcttgtctt ttgcaggatc ttatcgattc gaattcggca cgagccctat 60
cttatgagaa aagtaacttt gaaaggacta atacatcctg ttcttagctt ntgcttcctt 120
caggccttct ctatgaagcc agcctattct gctcagcgct ttggaacact gattctattt 180
catggaccga agcattgccc aattgtagaa ttgcaataaa gccaactgag atctttaaat 240
tggctataat tcatcctttg gcaatacagt aaaaaaaaaa aattctcaca attctgtaga 300
agggtatgag atatacaata aaagacaccc ccaccctctg caatctacca ctcacagtag 360
tttatctggt ggtttccact ttttaacaat ggtctgggcc aggtgcagtg actcactccc 420
gtaatcctag cactttggaa ggtcgaggcg ggcaggttgc ctgagctcag gagttcaaga 480
ccaacctggg caacacagtg aaacccctgt ctctactaaa atacagaaga aaattagccg 540
ggtgtggcgg catgcgcctg gtagtcccaa cttactcgtt tggctgaggc aagganaaat 600
tgcttggaac ccatgaaggc aaaaggntgg cagtggagcc cgagaatcat tgccggnttg 660
cacttccaac cctgggggtg gacaagaaac cgaagaactt ttgtctttta aaaaaaattt 720
aaattaaaaa aaaaaaaa 738

<210> 1605
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 1605
naattccata canctacttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
agaaggtcgc ctctaccttg cccagaacac aaaggtgctg cagatgctgg agggaaggct 120
gaaggaggag gacaaggntt tcatcaccag gganaatgtt nttggggccc tgcanaagtt 180
cagtctcagg cgcccgctgc agacagcgat gattcaagac ggcctcatct tctggctggt 240
tgatgttctg aaggaccctg actgcctgtc tgactacacg ctggagtact cggtggcttt 300
gctcatgaac ctctgcctcc gcagcacagg gaagaacatg tgtgccaagg tgggcaggcc 360
tcgtgctcaa agtcctttcg gatcttcttg gccatgaaaa ccatgagata cagcccgtat 420
tgtgaatgga gctcttgtac agcatccttt ctgttccatc ctttctggag gaagcaagan 480
caatgggaat ggaagacatc ctacctgctt catcaaanan gcaatgctga aatgaccgcc 540
agatagaatt catcatcaag cagcttaaat tccgaagagc taccagatgg tgttctttga 600
atcttgntga tgatgaagat gaagatgntg aagaggacca tgacntcntg gaagccgatc 660
ttggcaaaaa ccaactgatn ccaccccact tggaaaactc tcaggaaana agctt 715

<210> 1606
<211> 682
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(682)
<223> n = A,T,C or G

<400> 1606
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tnnattcnat caacctactt gttctttttg caggatccca tcgattcgaa ttcggcacga      60
gggtgggtgg cagagggaaa tccaacatgc agactgtggc agtgtcttga acttctgttt     120
attcaggtca ttgantaaaa aactcttttc ttctgcattc ctgtctttct gcatgtgtgt     180
gtgtgtgtgg gctgggtagg gactgttttt gagatcactg gctgaaatgt attctagggg     240
tgaaggatct aggatgtacc tgctcgtcat ttcctgactt cacctttacc aattcttttc     300
ttaacaaatt taaaattggt cagagcagga gctgctagct ggcttttaac agtgtttctc     360
ataatggcag tactcagcaa atagtttttc tcttgtctcc taaaattaag ttgcaagact     420
aatgtaacaa acagtaaaat ttaagctaaa gaactcagta taggctgggt gtggtggttt     480
acgtctataa ttccacactt tgggangctg aggtggaagg attgcttgag cccaggagtt     540
tgagaccacc tgggcaacgt agggagaccc tgctctacaa attaaaaccg caacacacca     600
aaaacctcta ctggcacgga gtggtgcgcc ctgtgtccct actccaactc tcanaggcag     660
nangacatcc tgggcccaag ag                                              682
```

<210> 1607
<211> 1356
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1356)
<223> n = A,T,C or G

<400> 1607
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cncncgncga annactntgn tanatgtaag aaataatgat nctnngcntn atancnannt      60
nnncaaaacn attagntnnn taatanagan tncnnnggnn annatnagcn aggcttgtaa     120
ccttggcaan ccgtnggtca gtccagnnag tcacgnnnnn cnncnngnnn ttactctatc     180
ncntatntnc nctngnatnt tttnacnngc nggaanaatc naccncctcn nggtggngaa     240
ntagngggnn aagtnnctgn aacnataacc atggngntga gngcnagaaa ancgaggaga     300
gatgnggaga tgcggcacct ntgtnnaaan cctgcnncnn tgngannncc nntggngnnt     360
cgggagnanc nnactcctan nnngangacn ggnnnatnga atngttannc gnanaaacan     420
ccgtgactaa atgtgtcgtg ggaagannng gnngtcgnnt aaaangnttg atancgnttn     480
ngancatntg gatttgagta atangaaang ancnncgggt ngnatttnag ngaanggganc     540
gggcgnnanc cnnccancnc gantgaagnn cgncaanncc ncancnaact ggnnntcnnt     600
anaantgntg antgcctnta nannntnagg ggcggggaat acnatcctaa atcgtggnan     660
catacactga ggnaatntnn annanaagaa tnnctcnnac atntnnatag ananaagant     720
atntnnagtn tctnnaanac ncanaanntc cnttgtncaa agngaaatgg ncnngagngt     780
ccagcacaga nataaacaca tggacatccn tgangcttgn atcnaacacg ngacgaaagc     840
agtngccgan nanattnntn tnagcangaa gancnatatg ctgtnnatct cncttgncna     900
aanctgtant tancataana ccangcncgt nngcancgan gangcaatan ccncantgnt     960
nagntaangc tnccncattn ggnggangaa taaaatcnga tggganantg aaannnangg    1020
ngctgcnctt attacgcnaa tcatatctaa atatannana ccatncttgt nagangntat    1080
acnctnatan tntctntcag atgngnacgc ttgnatgtcn tctatcntnn ctattcatat    1140
ctgacacgtn cgnacgcatg tnnattgnta acgcacgtag ngtgtncacn tnncnnctcc    1200
cgngnntagn gacagagacn ggagannnca tctctngtgc gcgnatanna gtaaagancc    1260
nnnctgtcan ancgcgntat cgatanttat gnngtncttc atncnnntaa caaaagcaac    1320
gctcntnttn ttncggaana aaaaaanacc nnncng                              1356
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<210> 1608
<211> 1588
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1588)
<223> n = A,T,C or G

<400> 1608
cccnncnnan ccnntnnnan cnngncgnta tatggcnnnn anncttggta tttctccang 60
ttgancngtn tnnatngtcn nancncnaat ttgnnngnnt tacnantccg cantgtccnn 120
tntcnattaa ancngtaaag aaantncngc ccnnctgtnn gatngtatcg gcagtattgt 180
nantgcgnaa tnnnacnnac annnantata tctggggggg cnnctnnnnc ntnangncnc 240
atggncnana tgcgtcnnta ntgtgngntn gccccgtntg nntctcatgn nnctnnnnna 300
atncnncnac cncctcganc nnnataacnn tnnnctcnng ncntaganta cnngaaagcg 360
ctctatcnac atccntaggc tanagtcanc ccncnnnntt ctntnntnat ngaanntncn 420
ncntntnntn tanaaacgat nctncanata ngacnctccn ctngnntaaa tgantattnn 480
cntcgcaann atccaccata tnacgtngct caanagnngt tncttnatac tacannnacc 540
nnattgncgg tnnnnacntc acacgctgaa agtgnggacn nacacgntct anctntgnga 600
gtantntaca ccntaanatg tgatctntca acncgcatct gtacatcgcg ncgannanca 660
cnnanngatc ncatnaatnc gtnacanctt anantcnana tnatnnntcg cncacaggnt 720
cnancctgga ttnnatnagn nnatgtntat nntcactann atntggcncc nnnganggcg 780
cgacnancnt ngantangag ngntatctgt gganncatan atcntngcca cnaggtacgc 840
nnccacntna ccgcgcngat naagangagt ttnacnatta cattanagtg ngtacgcttt 900
ncatanaact ntaannatcn agtataacna gancgnataa tctntttgat nnnntctacn 960
cncgcatgca actcnncntn ntatacncnc tgcgntcnac ntcnngantg canancngna 1020
tgtnnnnatc nnancacgac atgtatctac gnaggnatnt ttatntntga ctattcnntn 1080
tancgnncga ctgtgtnntt anntnngcaa ttgtgcncat tgancgtaaa atatntacga 1140
ctcgttcgcg tatacnncga ctcgttcncn gcatttacta ngcantttcc nctcgctaaa 1200
natccnngcc tnnangagtg tacntcgtct cgagtcgcgn cnntacncgn actgtgngng 1260
antnananct nctntntatn cgnncgcnat cgcgcncgca tatgaccnna nntctcgcaa 1320
gtatcttcca tagcacntaa ancntgnntc tntacnatna antnnctnta cttctcantt 1380
ttatacaatn nantcgntnc tannctnncg catntacgaa cngcgcnnnc atgantntac 1440
anncgctgnc gtncngcgnt annccanant gtccgctnac tcacantang tncanngctt 1500
agtcnngacn cacgtgntaa tgntcgatcg nagcctggcg acatagncat tncgtgatna 1560
nntnnncttc ntcncgacgc nctnnncc 1588

<210> 1609
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

<400> 1609
ttcgatacaa ctcttgttct ttttgcagga tccctcgatt cgaattcggc acgagtgatt 60
gatgagggct gtcggccagg aactgatcga gcttgttaat tgcatttgtc aaatgcaggg 120
aaattgggaa ttagtgaaat cggagaaggg ggtttggaaa acaaatgact cgtgcctaag 180
gaaatttttt gcaggaaagt atctcaggag cccctgcagt cagggagctg ctggtgtgga 240
ctcagactac atggttgaaa taggcaggag ctgggcgggg cacagtggct caggcttgta 300
atcccagcac cacactttgg gagacggagg caggcagatc acttgatgcc aggagtttga 360

gaccagtctg gccaacatgg tgaaacctgt ctctactaaa aatacgaaaa attagctggg 420
tgtggtggca ggcacctgtn atnccagcta cttgggaggc tgaagcanaa gttgcagtga 480
gcccgagatg gtgccatttg cactccancc tgngcaacaa aaagcnaaac ttncatctaa 540
aaanaaaaag gaaagaaaga aatttngcng ggaccccaag cttacattct ttcctttttg 600
gtaaaactgg ttggggaaat gggttnncct tccgtgaaga anccancaag gtagggtcna 660
tctttncttc ccccttnag gacatttggt tttgccngaa tctttaaaaa naaaaaatan 720
aaacnactnc ttnnct 736

<210> 1610
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 1610
canatacagc tcttgttctt tttgcaggat cccatcgatt cgaattcggc acgaggggga 60
gtaacagaag cctggataca attactctat caggagatga aaggggactt tggggagact 120
ggaatgntga aattgtttta taattcttca gtagaacaga tctgggatca cagttttaca 180
ggggcagaga tttaagttgg ccctctagtt atggagacac tcctactggt ttctataaaa 240
ggaatactta cattgcccaa accagtgcat ttcaaatctt cagcccaagg aangttccaa 300
cgctattgaa tttatggaaa cgtttgtatt tgctattaaa cttcaaaatc tacaaactgt 360
aagacttgta tttaagattc aaacccagac tcccaggaag aaaaccattg gagaatgctc 420
aatgtcactc agaaccctta cacacaggaa atggattact ctttggatat aacaccacct 480
tcaaaaattt ctgtttgcca tgccagaact tgaattgggg acttgttttc aagcagtaaa 540
tagcagaatt cagttacaaa ttcttggagg cacggnacct ttccaagctc atcaacacct 600
ntgaactttg agtttttttcg tgaanggngg ggaatgttta acctcnggag aagttgattt 660
atnaaaaaaa agacacgctt acttgaangg cctccatggg aanantcaaa 710

<210> 1611
<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(714)
<223> n = A,T,C or G

<400> 1611
tnnaatntca natacancta cttgttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgagaatgga tgctcatata ttgcttatgg atattttgga taccaaagta ggaataactg 120
gacattcagt attttaaagc tggcaaacct gtacatagaa aatagatccc cagacagtgg 180
tctatgaaga gggcagttaa gtatcaaatc ttaattttct tgcctttttt tcttaagtgg 240
ggaaaagttc tagatctctt acacctctga cacaatctgt tctaaaacag gcacttgtaa 300
tgttggggcc tccttgtaaa cgtgttttg cccttttactc tctgggatta caggcgtgag 360
ccagtgcacc cggcggaatc ttggaatttt tatagacagc acctcagttt ctgactccag 420
ccgcacacct tctgcctcta ccagcanggg ttgccgccag accagaccag ggccaggtcc 480
ctgcgtccat ccccccggta ggatggacgt gagccatcct tctaggggac ttttttcaat 540
gtgcgaactc gtctcttgtt aggtggtang aaccagtttg tntggnctgt gccacgcctc 600
cacaatgccg tggctgggct tcttgtgtgg tggnctgtgg tccccttgtc cctgcangaa 660
nccaacaagg cattcgtggc gtggacaact tgtgttccaa anccactggc ccgg 714

<210> 1612
<211> 698
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(698)
<223> n = A,T,C or G

<400> 1612
```
tncanantta nctcttgttc tttttgcagg atcccatcga ttcgaattcg gcacgaggta      60
tgccccttca gaacatgcag agtgtatctt tttttaaatt tctccttccg tttcttaagt     120
attgcgcaga tttgttcaac tttgtaaata tggacatcac tttttttttc tttgagaaaa     180
cacttgtatc agctttgtgg tgttttcagg gagacagctg tctgcattcc ctgtagaaac     240
ccagcaatga ttatgcacgt tgagacatgt gctttttatt tcttagcaag atattttatc     300
tctgtacata aagtagaaac caaaagctag ggaaacagat actctttaca ccatcatgcc     360
acgcattgtt tttaaagcat tgcgttaaaa aaaaattaac taaaccaaga tgctgtgatt     420
ttttaagttg caatatgttt ttggtttttt tcattttttta atcattgcag ttaagagaaa    480
tggaaattaa gttgtgttaa atcttgcaga atgtttgcag gactgactat caaactggat     540
gatttccatt tatccctact gngtcaggtt caagcatcaa aaatcccttg cntctgagac     600
agacttncta ncatcaggga cagggatctg gtgtgtcatt atacaaaaca gtctaggggg     660
tggaactncn tagtaaaaaa ataaaataaa tggnccttt                            698
```

<210> 1613
<211> 698
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(698)
<223> n = A,T,C or G

<400> 1613
```
ttnnanttca natttgactn cttgttcttt ttgcaggatc ccatcgattc gaattcggac      60
gagaacaaca aaaatctgaa cagaaatgct ctatttacgt tctttttcctt atctgtagtg   120
ttttaaagtc attaaactta aaaatgatgt tcaggagaag atgagtgtat ttgcatagtc     180
tgtcataact ctggtattat tttgtacaag gagtgtgtta gggttttcag ttgtaaccat     240
gcagaaaatc tacaaaataa aagcagttgt taattagtcc tttacaatca gaattgtcta     300
ttttggaaat ttatgaagta cttcagatgt aatttaagaa attgtatttg agccaagcgt     360
ggtggctcac acctgttatc ccagcacttt aggagcctga ggcaggtgga tcacaaggtc     420
aagagttcga gaccagcctg accaacatgg tgaaacccca tctcaactaa aaatacaaaa     480
cttaactggg ccgtggtggc gcgcgcctgt aatcccacta ctcaggaggc tgagtcagga     540
gaattacttg aatctaggag gtggaggttg cagtgagccg agatcacgcc ctgcacttca     600
cctggaaang angggaaagg gaaaggaaan gggaaaagga aanggaaang ggatggtttt     660
caggctgggc acggngntta cgcctgtaat cccacact                             698
```

<210> 1614
<211> 701
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(701)

<223> n = A,T,C or G

<400> 1614
ttcntatcag ctcttgttct ttttgcagga tcccatcgat tcgaattcgg cacgaggcaa 60
cgaaataatt ttaaagtgga tctgggttgg tagtgcttat gggagttagg caaggaaaaa 120
tgcagattct ctttagaata tcttcaccta ggtcccaaag gattctcata gatagatttc 180
caacaaatat gaggttataa taaaaaatac aaatcacata tagaagtatg gcaccatgaa 240
tgagaaagga aaaactgtca gaacaagacc ctcaagactt tactggaatt aacaagcaat 300
atgtaaagta aatagaaata agctattcat aataagaata atgtataaga gactactaaa 360
aataactggg cagatttgaa aataatctaa gttctgggaa tgaaaataat aactgaaaaa 420
cagctganag agagaattaa tgaactaaaa gaaagttgtt tagagattat ccagaaatta 480
ggacaaatca tcataaagaa aatatgggta gaaaaggtta agatggaagg ataaggcaag 540
tgcttancat atgtccagaa ggaaataata gaaaaaaatg tnttaattcc tccncactgg 600
taaaagacat gatggctcag attcagggaa ttgtacccat ctcaaaaaaa aaaaaaagga 660
angaaaagtg gccaggggaa atccttatta aaatccntgt g 701

<210> 1615
<211> 791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(791)
<223> n = A,T,C or G

<400> 1615
ttnanttcan attnanctct tgttcttttt gcaggatccc atcgattcga attcggcacg 60
agatccctac ctagaagaga atagatggga agagaactga aagaaagaat tcctcaagca 120
ctgaagtcag gaaaatcccc gtaggcactg tattagttgt tccatttatc ccagcactcc 180
acttgtggat gaaggagttg tatagaaagg agatgagaaa atggcaggag tggaagcagc 240
caagaagaga tcgatgactg aagatctcct tcaccttcag gactgtctca aggggttatt 300
tcacctctac tcatgaggat ggccagtttt tctgtctttt atctttagac ccatatataa 360
tcagttcaga gcacaaatca aaataaactg gcctaaataa ctgaatctag gaacaaagct 420
acatcttttt tcatatgcca aagctctgtt tcctcatgtt gttcctactt ttttaaataa 480
taaatgggct tctcaaccat cttaaggaac taagatgggg tcccccatctn gggtagnaac 540
ccggcttnta anttttttaag aaatcactct tggtaaattc tttancctca ctttaaaaat 600
anttanggaa aaccnccggt tnanttngga aaaaaggaac cgggggnaga aaccttcgtt 660
cntggccagg gntttttngg ccaagtggaa aaantttggg tcntttnccc aggnggnaaa 720
ttggcctant taantttttc caaaaatttg gcccttatta ggtccaaaaa aaagcctttt 780
ttncccnttt g 791

<210> 1616
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 1616
anccccnttga aattcacata caagctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga ggtaatcctt tctttttctt ctccctcttt cctgctctta cttatacagt 120
taggtgaata tgatgctcca cttccccac agatactcaa atagctctga ctgctgaaat 180

attggtatct tactgtcagc acataacttg ttgctgtgtt attgacattt tcactgtttt 240
gaaattttta ctgttatctg ggtttgaatc ccagctctcc caagcttcag ttttctttca 300
tttgtcaaat gagataaaag tatccacttc atagggttgt tatgaggatt aatgatgaat 360
acaaaacact taacatagta cgtggcatgt aatattagtt gtaaagttaa tgtattcatt 420
atcatcattc tgtttcaaat cagcaatgaa atacagacta cactaatccc atttctgctt 480
ggaattgtga gtctaaatgc catgtagcag ttccctgctt gaaatacact gtaaaccttc 540
caattgcagt caagaatttt actaccttct anggtatacc agggatggtg ggaacataag 600
taaaccttgg agatttggct tttccccgtg gtttgggaat tctaanccct ttctaccaaa 660
aaaggtaggt aacccctaaa aatttctaat taccatgccc caccntggat ggcctncctn 720
ccaattaaaa actttcagta a 741

<210> 1617
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 1617
ttnanttcan atcanctctt gttctttttg caggatccca tcgattcgaa ttcggcacga 60
gccctatctt atgagaaaag taactttgaa aggactaata catcctgttc ttagcttctg 120
cttccttcag gccttctcta tgaagccagc ctattctgct cagcgctttg gaacactgat 180
tctatttcat ggaccgaagc attgcccaat tgtagaattg caataaagcc aactgagatc 240
tttaaattgg ctataattca tcctttggca atacagtaaa aaaaaaaaat tctcacaatt 300
ctgtagaagg gtatgagata tacaataaaa gacaccccca ccctctgcaa tctaccactc 360
acagtagttt atctggtggt ttccactttt taacaatggg tctgggccag gtgcagtgac 420
tcactcccgt aatcctaaca ctttggaagg tcgaggcggg caggttgcct gagctcanga 480
gttcaagacc aacctgggca acacagtgaa acccctgtct ctactaaaat acagaagaaa 540
ttaacccggg tgtggcggca tgcgcctgta gtcccagcta ctcgtttggg ctgangcaag 600
gaaaaattgc ttggaaccca ttgangcaaa aggnttgcag tggagcccaa aatcaatgcc 660
ggttggnact ttcaaacctt ggggtggaca aaaaccgaag aacttttgtc ttntttaaaa 720
aaaaattaaa tttaaaaa 738

<210> 1618
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(722)
<223> n = A,T,C or G

<400> 1618
gnntttnann nccntttnan tttcanatac anctacttgt tctttttgca gggatcccat 60
cgattcgaat tcggcacgag atcatattca agttggcagg tttgactgtt cctctgcacc 120
agacatctgt agtaatctgt atgtttttca gccgtctcta gcagtattta aaggacaagg 180
aaccaaagaa tatgaaattc atcatggaaa gaagattcta tatgatatac ttgcctttgc 240
caaagaaagt gtgaattctc atgttaccac gcttggacct caaaattttc ctgccaatga 300
caaagaacca tggcttgttg atttctttgc cccctggtgt ccaccatgtc gagctttact 360
accagagtta cgaagagcat caaatcttct ttatggtcag cttaagtttg gtacactaga 420
ttgtacagtt catgagggac tctgtaacat gtataacatt caggcttatc caacaacagt 480
ggtattcaac cagtccacat tcatgagtat gaaggacatc actctgctga acaaatcttg 540

gagttcatag angatcttat gaatccttca gtggtctccc ttacacccac caccttcaac 600
gaactagtta cacaaagaaa acacaacgaa gtctggatgg ttgatttcta ttctccgtgg 660
tgtcatcctt gccaagtctt aatgccaaaa tggaaaagaa tggcccggac attaactgga 720
ct 722

<210> 1619
<211> 702
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(702)
<223> n = A,T,C or G

<400> 1619
ttnanttcan attgactctt gttcttttg caggatccct cgattcgaat tcggcacgag 60
gaactaatga aaagtggttg tctctaacct tggtatgctt tcagagcntc agggttaaat 120
tacctcaact tttggcaggt ntactctaaa gctattaagt atntaatatg ggctcggcat 180
ggtggctcac acctgtgagc cacctancac tttggcagtc caaggcggac agatcacttc 240
aggtcaggag tttgagacca gcctgtccga cgtggtgaaa ccccatctct actaaaaata 300
caaaaaccga ncgtggtggg tggcatgcac ctgtggtccc actacttggg aggctgaggc 360
agganaatcg cttgacccag gaggcggagg ttgcagtgag ccaagactgt gccactgcat 420
ttcagcctgg gtgacagagg gagactgtct caaaaacaaa aaaacaaaaa acaatggctg 480
ggcacggtgg ctcacgcccg taatcccagc actttgagan gctgaggcgt gcgttatcac 540
cttgaggtca aatgttgaan accagcctgg tcaaacttgg tgaaactgtc tntaccaaaa 600
atacaagaat taggtggaca tggtgtcggg ctctgtaatc tcaacttatc aggangctga 660
ggcaggaaaa tggctttgaa cccaaggang tggaagttca at 702

<210> 1620
<211> 1028
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1028)
<223> n = A,T,C or G

<400> 1620
ttgatctttg attcnatcaa ctcttntctt tgaggatcca tcgttcaatt cggcacgagc 60
cgcnactctg nncgccgtgg tggacaacgt gccccccnttn cnctggangg aattcgtncg 120
gcgcctaggg ntgaactnga ccacgatatc cgatnggcat ggagctgnaa gaacagggcg 180
ctgnccttgn gccnagggcn gcnaatacan tnatgcttnt cgnaacctgg gaaangctgg 240
ntgcaactcc cnnatgggtt tcggaagngn ccaacggctt ggggnaaacc ttgccttggg 300
gaaacgtccn nttgtcttnc ccggatntaa ccaattnggg aaccccccttg gctttngggg 360
gncnttggcn cctnngggga annggaacca ttttccnata tnnggaaang gcccccnctt 420
nttttggncg gaagcccccc anncccttnc ccntttcccc tggttgcncg gcccgacctc 480
caaattgcct tttttttnaa ataattgcaa anggccttga cccccccccc ttnantgngn 540
ccaggctttt taaaanggaa cccggttccc ttgntaaaaa atcnaccctt tacccnaacc 600
cccaactttt nttttttntt ggaaaaaaag ggaaangggg atccctggcc atgggngcca 660
aantcnaagt anacttatcc aaaatccgga gcttnacctt ttgnttggct ttaaaccccca 720
anttcggatt nntaccanta aactttttc ctttnaaaac taaatccttg accnncgncc 780
ntctcttaac aattaaaanc ntccttgttt ncctcctcca naaaaaagna tnnttnccnc 840
cccanagnng ccttcaaaaa aaaccnttgn ggtgggggtn gggattttng ggaaggaaan 900
anaagggaac ccnttttgcc ttnaaagccc cntnttttgg ggttttaact gaacnaaanc 960

caaggtttgt ttngnaggcc ccctngggnc canncccttt aanccntttt tcaccaatng 1020
gcantaan 1028

<210> 1621
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 1621
ttccattcaa actncttntt anctcttggn ctttatgcag gatcccatcg attcgaattc 60
ggcacgaggc ggctcttttc cctcgtgact cggttgctcc tggcgccgcg acggggcctc 120
acggtccgca gtcccgacga acccctgccg gtggtgcncn ttccaaaaaa gctcccgaga 180
cntacttttt tgcacagaca tagcctntcg gggcctggac agcactggtg tggagctggt 240
tgtcaattat gatttccccc cacgcttgca agattacatc cacagagcag ggagagtggn 300
ccgtgttggg gagcnaggtg ccaggcaccg tcatcagttt tgtgacccat ccctgggatg 360
tgagcctggt tcanaagatt gagctggcgg ctcgccgaag gagaagtctt ccaggactag 420
catcctcggt gaaagagcct ttgccccaac aacctgattt tgacaaatct gattaaaatg 480
tgatgctaga cagggatctt tcccagtatc ttgagtgggg tgaccacact ttgtcagtgg 540
ggaggcttnt gggcttgccc ttgtcngctt ccttgagggc cgggatgaac tgcttttgtg 600
aactttggaa aaggtacccc tgcttggncc agcatttggg angaaaaaaa cctgcttgaa 660
ncattggctt ttcttgtaag tcntttaanc aaagaacaca aagtgggatt ttggactttt 720
ggantcatgg tcattgaatt tcttaacaa 749

<210> 1622
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 1622
tttnatncnt ttacaactct tgttcttttt gcaggatccc atcgattcga attcggcacg 60
agctgatcct ccgcttccag aanganctga aggagatcca gtacggaatc agagcccacg 120
agtggatgtt cccggtgtga actgcaggct gtgctccaga tccaccgacc cgtagcatct 180
cgtcacgcca gcactcgcct ccctaccaat gactcacctg aaattgaaac gggcaggaaa 240
tagtctggca gcctctacag cagaagaaac ggcaggcagt gcccagggtc gtgcccagga 300
ggctgagcag ctgctacgcg gtcctctggg tgatcagtac cagacggtga agccctagct 360
gagcgcaagg cccaaggtgt gctggctgta caggcaaggg cagaacaact gcgggatgag 420
gctcgggacc tgttgcaagc cgctcaggac aagctgcagc ggctacagga attggaaggc 480
acctatgagg aaaatgagcg ggcactggag agtaangcag cccctcgtcg cgggttcang 540
tccgcccatt actnctttgt cgtgcngtca aaggatacac ctttgccccc gattnccgga 600
tcttnttccg ttctcangcc anaacccctg gtgcttgccg gtgaattttt tttttctctg 660
gctttgcttg caatttttga aaataaaatg nccnaaaaac aaaaaat 707

<210> 1623
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 1623
ttnaannccn nnttgaattc atatacagct acttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgaggagag agagagagag agagagagag agagagagag agagagagag 120
agagagagag agagagagag agagagagag agctnacacc agaagaacaa ttagcagata 180
aactgcggct aaagaaatta caggaagagt cagacctcga attagcaaag gaaacttttg 240
gtgttaataa tgcagtttat ggaatagatg ctatgaaccc atcttcaaga gatgacttta 300
cagagtttgg aaagttacta aaagataaaa ttacacaata tgaaaagtca ctatattatg 360
ccagtttttt ggaagtctta gttcgagatg tgtgtatttc atgtaaagta attctaattt 420
ctagcccctc tgggtagatt tttagtagga tgttctcttc aggaggttga aggttatttt 480
ttattttcaa ggatactata atacanactc atgatttgct gtttttagca attaccttgt 540
gaatgttgtc tgcanatcag tgaatttgag tgctggatct tttgtttgt tgnaggggta 600
agaagacttn ttgtttacaa tggcttccct taaaanatac ctgggcttgt caccaaagca 660
nttaataaaa cactggcctn ttntttttaa aaaaaaaaaa aaaaaaa 707

<210> 1624
<211> 683
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(683)
<223> n = A,T,C or G

<400> 1624
ttganttcgt tcagctcttg ttctttttgc aggatcccat cgattcgctc agccctcggt 60
caaaagaatc tgttccagaa ttccccccttt cccctccaaa gaagaaggat ctttccctgg 120
aggaaattca gaagaaatta gaagctgcag aagaaagacg caagtcccat gaagctgagg 180
tcttgaagca gctggctgag aaacgagagc acgagaaaga agtgcttcag aaggcaatag 240
aagagaacaa caacttcagt aaaatggcag aagagaaact gacccacaaa atggaagcta 300
ataaagagaa ccgagaggca caaatggctg ccaaactgga acgtttgcga gagaaggata 360
agcacattga agaagtgcgg aagaacaaag aatccaaaga ccctgctgac gagactgaag 420
ctgactaatt tgttctgaga actgactttc tccccatccc cttcctaaat atccaaagac 480
tgtactggcc agtgtcattt tatttttttcc ctcctgacaa atattttaga agctaatgta 540
ggactgtata ggtagatcca gatccagact gtaagatgtt gtttaggggc taaaggggag 600
aactgaagtg ttttactctt tttctaagtg ttggctttct atgnactatt ttcttgtgct 660
ctttttactt cntcacttgg ggn 683

<210> 1625
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 1625
ttgatncntt acatttnatc cttttttgca ggatcccatc gattcgtttg gctctacttt 60
gcagggaatc tggcatcggg tggtgccgca ggggcnacat ccctgtgttt tgtgtaccct 120

cttgattttg cccgtacccg tctagcagct gatgtgggta aagctggact gaaagggaat 180
tccgaggcct cggtgactgc ctggttaaga tctacaaatc tgatgggatt aagggcctgt 240
ccaaggcttt aacgtgtctg tgcagggtat tatcatctac cgagccgcct acttcggtat 300
ctatgacact gcaaagggaa tgcttccgga tcccaagaac actcacatcg tcatcagctg 360
gatgatcgca cagactgtca ctgctgttgc cgggttgact tcctatccat ttgacactgt 420
tcgccgccgc atgatgatgc agtcagggcg caaaggaact gacatcatgt acacaggcac 480
ccttgactgc tggcggaaga ttgctcgtga tgaangangc aaactttttt caagggtgca 540
tggtccaatg ttctcanaag catgggtggn gcttttgngc ttgtcttgna ttgatgaaat 600
caagaagttc accntaagtt tatttcctan gatttttcc ccctgtgaaa caaggcattg 660
ttggaantta atatnaacaa antctttgaa ncattttttt gaacana 707

<210> 1626
<211> 700
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(700)
<223> n = A,T,C or G

<400> 1626
ttgacttcgt atacaatntc ttgntctttt tgcaggatcc ctcgattcga attcggcacg 60
agcgaagtcg ggatcgaaga aagatcaaaa agccgggatc gaaagtcata taagcacagg 120
gagcaaaagt cgggacagag aacaagatag aaaatccaag gagaaagaaa agaggggatc 180
tgatgataaa aaaagtagtg tgaagtccgg tagtcgagaa aagcagagtg aagacacaaa 240
cactgaatcg aaggaaagtg atctaagaat gaggtcaatg ggaccagtga agacattaaa 300
tctgaaggtg acactcagtc caattaaaac tgatctgata agacctcaga tcagacagag 360
gactactgtt cgaagatttt tggaagaata ctgagaacgg cataaagtga agatcgacat 420
ttaaaaaatg aggtgaaaga aagctatagt ggcatagaaa aagtataaag ctcagttagt 480
tttttatta ttattattat taaaagttaa ttcaggactg atgtgaccta ccagatttca 540
gaacatgtgt taatagtata tatgccactg aaaacttagg tcctgtatca tacttttttc 600
tttaagactt tttaagaaat attacttaaa ccttgtggct tgctcagtgt tttaattgcc 660
agtttcaatc ttggactttg aaacaggatt aaccgtagtn 700

<210> 1627
<211> 703
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(703)
<223> n = A,T,C or G

<400> 1627
ttanatacaa gctacttgtt ctttttgcag gatccctcga ttcgaattcg gcacgagctt 60
gagtctagga gttcaagacc agccttggca acgtggctaa accccattgc tacaaaaata 120
tatatataca aaaaattagc tgggagcggt tggcacatgc ctgtagtccc aactactcag 180
gaagcccgan gtgggagaat tgcttgagtc tggggagcag aggttgcagt gagctaaggt 240
catgccactg tactccagcc tgacagagca agaccctgtc ccccgacaaa aaaaagcatc 300
atgagcaact ctcccaaggc tggcccctgc acatgtcttc ccatccacca atagagtccc 360
agttcatagc cattgtcaca ccattgtcct gtcttcctct caactgaggg tgatgtttag 420
aggcatgatt tctatctaat attgaagcca gaggctcttc caacattttc cagagtcttc 480
ttgtagaaaa ggagctatgg atgtttcctt gaaaacangc cccgattcct gtgacacacc 540
catcacatgt tgctcaaagc tatcccaaga tattaccaaa tattggacat cctgtcctgg 600

```
gtgagcaggt agcagtgcta aggtaagaca aagttnccag ttctgggagt cttcctactt      660
ccaagaaggc caatccttga gcagtgtgga ttnctgtggt tat                        703
```

<210> 1628
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 1628

```
tttgaatccc tttacaactn cttgttcttt ttgcaggatc ccatcgattc gcccctgttt       60
acagcaataa gcacgtcctc ctccccnact cccattccag gattgtggtt tggattgaaa      120
ccaagtttac aagtagacac ccctgggggg gcgggcagtg gacaaggatg gcaaggggtg      180
ggcattgggg tgccaggcag gcatgtacag actctatatc tctatatata atgtacagac      240
agacagagtc ccttccctct ttaacccct gacctttctt gacttcccct tcagcttcag       300
acccccttccc caccangcta ggcccccac acctgggggga ccccctggcc cctcttttgt     360
cttctgtgaa gacaggacct atgcaacgca cagacacttt tggagaccgt aaaacaacaa      420
gcgcccccctc ccttccagcc cttgagccgg gaaccatctc ccaggacctt gccctgctca     480
ccctatgtgg tcccacctat nctcctgggc ctttttttnaa gtgctttggg ctgtgacttt     540
catactctgc tctttagtct aaaaaaaaat aaactggaga tnaaanttnn nnntnccaaa      600
nnnnnanant tnngnnnnnc anngnnnnnn nnnnnnnnnn aaantnaatt tnnntnnnan      660
ttgtntnnng ctnttanaaa tanantnnac ccttncttnt ataaaatttt gnnng           715
```

<210> 1629
<211> 694
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(694)
<223> n = A,T,C or G

<400> 1629

```
ttcanataca agctacttgt tctttttgca ggatcccatc gattcgaatt cggcacgagg       60
cctacactag tgaattaatc tgaaaggcac tgtgtcagtg gcatggcttg tatgcttgtc      120
ctgtggtgac agtttgtgac attctgtctt catgaggtct cacagtcgac gctcctgtaa      180
tcattctttg tattcactcc attcccctgt ctgtctgcat ttgtctcaga catttccttg      240
gctggacaga tggggttatg catttgcaat aatttccttc tgatttctct gtggaacgtg      300
ttcggtcccg agtgaggact gtgtgtcttt ttaccctgaa gttagttgca tattcagagg      360
taaagttgtg tgctatcttg gcagcatctt agagatggag acattaacaa gctaatggta      420
attagaatca tttgaattta ttttttttcta atatgtgaaa cacagatttc aagtgtttta     480
tcttttttttt ttaaatttaa atgggaatat aacacaagtt ttcccttcca tattcctctc     540
ttgagtttat gcacatctct ataaatcatt aagttttcta ttttattaca taaaattctt      600
ttagaaaatg caaatagtga actttgtgaa tggatttttc catactcatc tacaattcct      660
ccatttttaa atggactact tttattttta aatt                                  694
```

<210> 1630
<211> 908
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(908)
<223> n = A,T,C or G

<400> 1630
gaaaaccctt ttgaaatncc cnnnttnaat tcanatacaa gctacttgtt ctttttgcag 60
gatcccatcg attcgaattc ggcacgaggt ggcaaagctt catccagtct aggtcttcag 120
gattttgatt tgctccgggt aataggaaga ggaagttatg ccaaagtact gttgggttcg 180
attaaaaaaa acagatcgta ttttatgcaa tgaaagttgg tgaaaaaaga gcttgttaat 240
gatgatgagg atattgattg gggtacagac aggaagaagc atgtgtttga gcaggcatcc 300
caatcatccc tttcctttgg ttggggcctg canttctttg gcttttccag nacaggaaaa 360
gccaagaatt ggtttctttt ggtttantaa ggaagttant ggttaaaaat ggggaaggga 420
agaacccnta aatggttttt ccantaatgg ccaggccgga accaaaaagg aaaaaaacct 480
tttcccntgg naaagnaaaa ccaattgncc ccaagaaatt tttttaacnt tcttggccaa 540
gaaaaaaatt caaagttcct taagcccant tttaaaaaat ttaattcctt ttcnattgga 600
agcccgaaag gggaattaaa nttttnanta aggaagaatt ttgnaaaacc ttggggacca 660
aatggttatt taacctgggg acntcntgga aaggcccacc antttaaaac ntccactgga 720
cccaccggcc attgtgttaa aggaaaggat ttaccggcca gggnaagata ccaaccagca 780
ctttctggng gtacctncta attacatgct cctggaaatt ttaagangag aagattatgg 840
nttcaatgtt gactggtggg ctcttggagt gctcatgttt gaagatgatg gcaggaaggt 900
ctcctttt 908

<210> 1631
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 1631
gaancccttt nnnnttnnaa ttcananaca ngctacttgt tctttttgca ggatcccatc 60
gattcgaatt cggcacgagg gaactaatga aaaagtggtt gtctctaacc ttggtatgct 120
ttcagagcat cagggttaaa ttacctcaac ttttggcagg tatactctaa agctattaag 180
tatataatat gggctcggca tggtggctca cacctgtgag ccacctagca ctttggcagt 240
ccaaggcgga cagatcactt caggtcagga gtttgagacc agcctgtccg acgtggtgaa 300
accccatctc tactaaaaat acaaaaaccg agcgtggtgg gtggcatgca cctgtggtcc 360
cagctacttg ggaggctgag gcaggagaat cgcttgaacc cangaggcgg aggttgcagt 420
gagccaagac tgtgccactg catttcacct gggtgacaga gggagactgt ctcaaaaaca 480
aaaaaacaaa aaacaatggc tgggcacggt ggctcacgcc cgtaatccca gcactttgaa 540
aggctgaggc gtgcctttat cacctgaggt caagatgttg aaaaaccacc tggtcaactt 600
tggtgaaact gtctctacca aaaaatacaa gaattangnt ggacatggtg tcnggcttct 660
gtaatctcaa cttantcang aagctgaggc angaaaaaat ggctttgaat 710

<210> 1632
<211> 700
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(700)
<223> n = A,T,C or G

<400> 1632
tttgaaaccc tttgnnantn canttcanan acaagctact tgttcttttt gcaggatccc 60
atcgattcga attcggcacg agagatacat tgaactcttc aggagcacag cagctgaagt 120
tcagcaggtg ctgaatcgat tctcctcggc ccctctcatt ccacttccaa cccctcccat 180
tattccagta ctacctcagc aatttgtgcc ccctacaaat gttagagact gtatacgcct 240
tcgaggtctt ccctatgcag ccacaattga ggacatcctg gatttcctgg gggagttcgc 300
cacagatatt cgtactcatg ggttcacat ggttttgaat caccagggcc gccatcagga 360
gatgccttta tccagatgaa gtctgcggac agagcattta tggctgcaca gaagtgtcat 420
aaaaaaaaca tgaaggacag atatgttgaa gtctttcagt gttcagctga ggagatgaac 480
tttgtgttaa tggggggcac tttaaatcga aatggcttat ccccaccgcc atgtaagtta 540
ccatgtaagt ttttcttggg tcttggcgct attctacgct atatgctggt aggtgcttaa 600
gctgctttcg taactttctg gcccctggtt ctttctgagc aggtgaggtg gttatataag 660
gctcttccat ctgtaatcag tagtacctgg taatcattta 700

<210> 1633
<211> 670
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(670)
<223> n = A,T,C or G

<400> 1633
gntnaccnnc cngnncnaaa nnacgcatnn gngngnntgg ctnannntng catttttagt 60
agagatgggg cttcacaatg ctgcccaggt ttttcnngaa ccgctgacct taancgaggn 120
gnctgccttg gcctccccaa ggtgcnggaa tnacaggcat gagccaccgn gcccggatga 180
canccgtatt cattaagtgt ctntncgnga cagnctaatg ancnagctan cnnncatgga 240
agtgcaatgc cnncanngtn ngttnttnan ncctnaancn gntgggncca ggtntatnaa 300
cnanctnaca nncctgngta gagagggact acaggcgcat gccaccacac ctggctattg 360
tggattttaa naaatttttt ttgtanagac agggtcttac tatgttgccc aggttgttcn 420
tganctcttg ggctccagag agccttccat ctcagcctcc caaagtgcnt ganatnatag 480
gcgtgagcca ccacncttag cccattgtna ctttttagag ctctaatact tcctttaang 540
gcactaaaaa ctcaatctta aatccagttg ntnttcattt gggtgaatga aatggnaggg 600
accctcctta attttttttc caggtttttg ggattgaana aatttcaann atcttcaaag 660
cgacctaaan 670

<210> 1634
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 1634
tcccntatac aagctacttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
ctttaaacaa aaaatatgtt atcctacaca ttagtgtcaa tccaatggtt gtctcttatc 120
tgtctaaata gcaaaatcat gaaaatcagc tgttttattt gcataggaca actaacctgt 180
ctgtgtaact ttgtttttat tttaactctt actagaaaat ctaatcttaa aacatttgaa 240
ttctaaacat gtaaaatgtg acagcctgca attttgtaga cagtgaagta atggctgcta 300
tttataaatg gaacatctat caaaataagt aactgtttat aaaattcagt ttttgtaggg 360
ttttccaagg aaaaatcacc ttggttgaat gtttctcact cattaaactt tgcagaagtg 420

attcatattc agtactgttt ttaatcactt tttaaaatat aaggaccgaa tgcaaggaaa 480
ccaaagttta ttaataattt ttatataact aaaataaaat agatgtggag ggatctgtga 540
tcatataaaa aggganggtt actgaaaaga atttagcaa tatattggtt tcagggaaaa 600
nggagctgtt tttattaaaa tggatccatt ccactggntc cctaatgggt tcctatggta 660
tcctttccaa acccggatta cccttttact tatttttaaa aagnagccgg taaaat 716

<210> 1635
<211> 691
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(691)
<223> n = A,T,C or G

<400> 1635
accnnaaacc ctttgcaact ncttgttctt tttgcaggat cccatcgatt cgaattcggc 60
acgaggttgg cttccccggg agaggantttt gaggattaaa aatattcaga aacaaacaaa 120
agaacacaaa aatgcaaaca catggtangg aattactact gcttattctc aacagtacca 180
cagaaccagt gtttgagtgc tggcaccata tgcaacatgg ggcatccggg ctggagtgat 240
ccagtttttt agttggtggt ggcgatgatt tttctttcct tttggtttat aattttctgt 300
tcattttcc ccctttctcc cccacattca ttaagaaccc tactgaaacc ctaggtgaca 360
aaaggtgtgc cttctgttgc cacatttgac ccaccacagg actcactgga ctggacttct 420
atttatattg tattaagtaa ctgatatata tatatatata tatatatata tatttttgat 480
tgacaccaaa aaattacctt ggcacaaatg ccagacctgt gaaggtcaga ggcccgctgc 540
ttcttccagg agggagggaa ctttttggtt gctgtggcaa ttcctctgta cagattgtaa 600
ctttttaaa aatttccctt cacccccgtc acttgaatat atgttcatag taatttgtaa 660
gaatacttct ttttccttat tttgggtgca a 691

<210> 1636
<211> 686
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(686)
<223> n = A,T,C or G

<400> 1636
tttgaatccn tttacancta cttgttcttt ttgcaggatc ccatcgattc ggcagagttg 60
gcctttgcc cgtggtgtgc tagtanctttt ggctgatgct aagctttcct ggtatgcgcc 120
ctatttttaa gaagtaattg cttttgaatt aagttatagc attactaatt catgttaatg 180
actaggaaac cctctgtaat ttacaagatt tttcaaattg gtggggagtg aataaataca 240
atttaaaaga gtcagaaatc agtttggcaa agtgtacttt cttaatttct atttatgatg 300
aagtatanca taatttattt gtaatactac tttatggtat accagtgaaa gaactgtagt 360
ataaaaaaga ggtattaatg ttttatgaaa tctcatgcat cagttcatag cataaaatct 420
agctggacaa ctaagaagct atggtagcaa acagtgatgt tgatggaatg agaatcatga 480
actttcatat tacctcaaag gattttttta tcagtttttt tcacacatca gaaaaaactg 540
actgtataaa cacttatcac tgaccttttt ctatgtgnag ttttgccttt tatcttttcc 600
caaattttat aaagagaaat taatnaatat tttattacac attgtaaaaa aaaaaaaaaa 660
aaaaactcga gcctntagaa ctatan 686

<210> 1637
<211> 710

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 1637
ttccgtatac agctacttgt tctttttgca ggatcccatc gattcgaatt cggcacgagg 60
caaggtgcag tagctcacgc ctgtaatccc agcactttgg gaggccgaga cagggaggat 120
tgctttagac caggagttca ggaccagcct ggccaacaca gtgaggccct gtctacaaaa 180
aattaaaata atcacttaaa aaaatcaaat attcttgaaa aagtttagac ttgtaaaata 240
taatatgggg aaaatggaca tggtagaaat ganaaactac aaaataaaac acagacagac 300
agacctgtga ttggtaaata tttgataggg tccagaaaaa cttatggatg aatcaaatca 360
taattgtata atttgcctac aaaagaactg atccagatca aaataatttc aggagactaa 420
agtgaaaatg gaaacatttg gaantctgtt aaacaactgg cttaatgaac tttgctctag 480
aaaataccct ctcaatgaaa atgaactttg ctatggtata tttttctttt aaatagttgt 540
agtcatgaac atggagtcaa aatgctctct gggctatcaa tttttctctt taaaacaagg 600
cttttggctt gcattcccac aaggtcttta aataccgtaa ntatttccn ttatttnttc 660
cagaatcaaa antattttnc caaatcccttt ttggggantt tcttctttcc 710

<210> 1638
<211> 685
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(685)
<223> n = A,T,C or G

<400> 1638
ttcanatcag ctcttgttct ttttgcagga tccctcgatt cgaattcggc acgagtgaaa 60
ttcagctaac cgagcagcta cggtccctca tccccaacga gggatgtgag aaagttcatg 120
tctcatgtta tctggacctt gaaaatggaa tgttcagaac acatgtgcaa gggagctgtg 180
ccaagctcat gtcgcgaaca ggcctcctga tgaagcttct cagcgagcag caggaagcaa 240
aggcattgaa tgtagaatgg gatacggacc aacaaaaaac aaattatatt aatgagaaca 300
tggaacagaa tgaacagaaa gagcagaagt caagtgagct catgaaagaa gttccaggat 360
atgactataa gaacaaactc atcttcgcaa tatctgtgac tgtcatacta ataattttga 420
ttataatttt ttgttttata gaggtaaaga caataattaa ttcaggtttt caaaatacaa 480
tcctgtgttt gtgtggattc agaatccaca aactgaaaac caacgtcact ttcccacttg 540
acattcttct tctgtcattt aaaggctgan gtgtgctttg ttcttttact gcaatgtata 600
ttccaggatt ggtaaaggat cctcgcttnc aggaggtctc tgtgaaataa aacccaagtt 660
aatcccaaaa aaaaaaaaaa aaaat 685

<210> 1639
<211> 683
<212> DNA
<213> Homo sapiens

<400> 1639
ttcgatcagc tcttgttctt tttgcaggat cccatcgatt cggaaagatt ctcaaggaag 60
aagtaataag gcattacatc tgaagagtga tgctgaattt aaaaagatat ttggccttac 120
taaggatttg agagtgtgcc ttactcgaat tcctgccatt tgacctctgg agaaggtttc 180
gattccttta gcagtttggt aaagagtggt acttacaaag agacagagtt tatggtgaag 240

gaaggagaga gaaaacagca gaattttgat aagaaaagaa aagcaaaaac taataagaag 300
atggatcaca taaagaagag aaaaacagag aatgcttata acgcaatcat aaatggggaa 360
gctaatgtca ccggttccca actcctaagc agtattttac caacttcaga tgtgtcacaa 420
cataacattc tcacgagtca cagcaaaacc agacaagaaa agagaactga gatggaatac 480
tatacccatg agaagcaaga gaaaggcctt tgaattcaaa tgcagcttat gaacaaagtc 540
atttcttcaa taaaaattat accgaagata ttttcccagt gacaccaccc ggagttagaa 600
gaaaccattc gagatgaaaa aataagaaga ctttaagcag gtgctgagag agaaagaagc 660
agctcttgaa gaaatgcctt aga 683

<210> 1640
<211> 689
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(689)
<223> n = A,T,C or G

<400> 1640
ttcanataca agctacttgt tctttttgca ggatcccatc gattcgaatt cggcacgaga 60
gaagaatttg gtataatcat gaaagccctg tggacaggac agtatagata tatcagtcca 120
aagggacttt aaaatcccat tggggaagat caatgaccaa gtttgcagga tacagtcagc 180
aagattcaca agaattgctt ctgttcctaa tggatgggtc tccatgaaga tctaaataaa 240
gctgataatc ggaagagata taaagaagaa aataatgatc atctcgatga ctttaaagct 300
gcagaacatg cctggcagaa acacaagcag ctcaatgagt ctattattgt tgcacttttt 360
cagggtcaat tcaaatctac agtacagtgc ctcacatgtc acaaaaagtc taggacattt 420
gaggccttca tgtatttgtc tctccactag catccacaag taaatgtaca ttacaggatt 480
gccttagatt attttccaaa gaagaaaact cacagataac aacagatttt actgcagtca 540
ttgcagagct cgacgggatt ctctaaaaaa gatagaaatc tggaagttac cacctgtgct 600
tttagtgcat ctgaaacgtt tttnctacga tggcaggtgg gaaacaaaaa attacagaca 660
tctgtggact tncccgtaag aaaatcttg 689

<210> 1641
<211> 683
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(683)
<223> n = A,T,C or G

<400> 1641
ttcananaca agctacttgt tctttttgca ggatcccatc gattcgaatt cggcacgagg 60
tttcttgtaa gtactctggg agtgcataat acattttaaa taagattaaa aattatgttt 120
tattcttact agcatcactg tcagataatt gagccgtgag agcattcagt gctgtgtgct 180
tggtaccgaa gtagtaacat caattcagtg ttcagtacat ccactttgtt ccagaacaat 240
gtattcaagg tcggtgtatt ttggctgtgc cacagagttc tggaaattcc caagagaata 300
agttttcacc tgttatataa tccagcacaa gtgactgtgt agcagcaacc tcatgtttca 360
tgatgacttt aaaatgcaat tgattctaaa atttagcttt taaaaatttc gacttcagat 420
tttctctgaa ggtttaaggt aggcttctcc tttattaatt tttttcaaga aatatttaag 480
aacactgctc tgtgctatgt accattctaa gcactttaca gatactaatt catttaatcc 540
tcagccctgn taggtaagta ctgctattcc ccccgtccag atgangaaac agcctcagag 600
gagtaaaaca ggttgctcan gtacacggca gcgggttgga ctactcagtt tcagataatc 660
actgngaaat tttactggtt tga 683

<210> 1642
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 1642
```
tntcanatac agctcttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggg      60
aacctcacct gtggctcagc tcaccccaca tccgtttctc attacgtgta aataaactgt     120
cagagctgat gttacagctt ttacagttta aagcattccc ctcgtctcta gttccttttt     180
tcttgtttac atgttttggg cactttccct cattcaccac cttccagggt ttcatagaaa     240
ataacttgtt acaaaatcag ttcaattcta atgtggacat agtggcatgt tcataattag     300
acccatatag gggacactga gctttaaatc gttgattcta aactctatac attaaaaaaa     360
ttcagcccag gcccctcaaa gcctgagaaa atttaatttg ctcttaattt aatgttccaa     420
aactcactct tggaaaaatg cctgttggaa aactacaggt gggtcacatg tgggggctgt     480
ctccgtgaca ctcaggattc cagtcagaac ctaatcctca tatctattgc ctacaaaaat     540
agaccaagaa tgttgctgct cttttataat cctttaaata tttaacattc aagttttctt     600
ttgtcttaaa ttcagcctct ttcttaaaag caaaaaaaaa gcctcttaga actatagtga     660
gtcgtattac gtagatccag acatgataaa gatacattga tgagtttgga caaacc         716
```

<210> 1643
<211> 809
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(809)
<223> n = A,T,C or G

<400> 1643
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ttgaattccn atacanctac ttgttctttt tgcaggatcc catcgattcg aaaaaataaa      60
agtaaattct aggcaagcta aagagtgaaa tgtatcatca cataggagga agtgggggaa     120
aaaagtgaaa tgtaagaaat gaaatgataa gaagaactta gtgggtattc gtttgatttt     180
ggaggcactc taggaaaatt ctgccagatt gtactacatt taaaaaaaat ttttttaac      240
ttttgtgtgc ttcagtttgg tcatagacaa atgaaaaggc acatcacaaa ctaaaaagaa     300
aatcagttcc tatatatgat aaagggttaa tatgtttttta tatggagagt tcatataaat    360
caataaacaa aacactaata ccctgtacaa ataatagacc tatcaggcat cgtttctgat     420
gccgttctct gatgaaaggg aaccagggct cctcagagaa atggctgatg cgaggactga     480
gaaaatacac cagtatggta ggtcaaggca ccggtggctc acgcctataa tcccagcact     540
ttggggaaag cccgaangtg gagccgggat ccactttgna nggtccangg gaagtttcca     600
aagaaaccag gcccttgggn cccaaccatt ggggtaaaaa aaccccccat cttcttactt     660
taaaaaaaat tcccaaagga ttttagcccc caggccgtng gtngggtncc cattaccctt     720
gttaaatccc cagccttact tcaaggaaag gcctttaagg ccaaggaang gaattggttt     780
tggaaccccc ccaaaaangg ccaaaangg                                        809
```

<210> 1644
<211> 1387
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(1387)
<223> n = A,T,C or G

<400> 1644
ccgctcngca nnnncttcct ntgacgcgcg nttntntgnt gtnnnanncn ncngtatgtn 60
cncntnnacc nntgcgnctn ntcagcgtct acganntggn gntcatatag gggggngatt 120
nacactgngn gggtcnttag nncgttttgg aaaaacccnt ctggcagcgn ccngcgaggt 180
nnancganct cgctantaag ngngggcnnt aannngnnan tnnngtnagg ngcagtgnnt 240
nnntnnaggn naattggnnn ntantgntgn ngnaacntna tangtcnang ttnantntng 300
ncngatatgg nnttctgnta tcgtnnnnnt cnntannnan tnngnngnnt gtcntgatgn 360
tnnngcntgt nnnaagannn cttntntcnt gtgnntnnnt gtncttcggn tgtgtnnntt 420
ngncccctaa tnccngntnn cannnttcnt gctggnanct nnncnntccn ttttgntna 480
tnntccnngt cngcntgncc nnnnngnctn ncgcnnnnna nttccgnnan tagcnnagct 540
ntggnngctc tnnnnntagn ngatnncnng tgctantnca ncngantntn nnnnnacgcc 600
gctacgncnc tntcngatcg tacnncantg tgntncnnca nacnnnacng ntntnagcnc 660
agnanngtnt acgcntctng taccncgcan nntcgangcg cngtnnagtc tgggcgtnnn 720
tngnnanatg atntcggntc ccacntnntn ngcgcntgca aagagtgtna tnncncntnn 780
gcncanngg t gtnacataca ganacantag cnggagcgcc tnattntgng tctanntacg 840
ctntntgtga nngatntaca tctnanntgg cntgcnacnt nanntnatgn cgcnantnnt 900
ganntnnngg agangttcag cnncaaattg gcacgngcat ntngnncttc agtgacgcnn 960
tcgnnantnn annacacnct tgnctgtant gtcgtnatcn ntaaccacnc tntcttactn 1020
ngnngntcnn cgggnnngaa gnnnatnnnt ncnnncgnat gcgcagatac gctnggnncg 1080
anattgngct tgtncacgct cagcacngtt ntnacagngt nnntntcctn nctgtcgnca 1140
tgncnncggn catnncgtna gtntgtacgt acngcggcaa tantctnatn tangctcanc 1200
ntnagcncnn nctgcnngag tntnngtnca tgtanngana gatnatancg tnanttnntg 1260
nagnngtnnc gcccngnnga nnngtacata ctctgtnntn nnngatctcc ncgctncgct 1320
gntctctncg ngtnntatna ncgacgtttn nacagnnann tcancntnac tcccgntctg 1380
atnnnng 1387

<210> 1645
<211> 1492
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1492)
<223> n = A,T,C or G

<400> 1645
acgtcnntct gtccncatta cnctatnnac acacgtgnan cctngacgnn cacnctgtgt 60
ctatcnnctn ganannataa cnttgttgcn ntgncgnnan nacgagttcn nctantgntg 120
cattancacg agaggnctct ncatttatnt nngngggcac nccgcgncgt tttggtaaat 180
cccntattgt natggaacga gtcngctanc aacatcntga tnnntagntc ccgatcanna 240
tgaagcnnta ngcatcctcn gaanctnnat nggtanatnt tnatntagcn nnnnnnttgc 300
gnacnctnga nanatagngg acnctagnta gtannntagt ccatnacnta tctnntgtnn 360
naaancctnc annaccntct ggcntgaaaa natacnntna nnttnggann nncncgnncg 420
tgtnancagn ngggntggat tgtnttgntg tgngcnctat ncnctgnggn ctaaatnnta 480
ntntactgnn ntnannnnnt aagnntcnnn ctnannncaa ncnnggcnnt tgagatntgn 540
acganttagg ngtnnatcng nntaggnnta tcnnntnnna ntganataan gcnntnntnt 600
nctcantggn tcgngcgctg cttntcttgg cagngtagtn ntgcnnacnn atgngngcnc 660
tnacncacng cacncncntc ancngatgnn ctantcacag naccaacatn cncantanct 720
tnanantact nacnactgac gcnnntgtnt ctcgccntcn ngagganand nnngacatgt 780
ctcngaacan tccncnncnt cacatntctc ngcncgttca ctnnntatgc naagcnnntg 840
accgaccntt ctntctntac atatcgttng tnntgtnnat nacacgcatt ctntcnccaa 900

nctatncncc ntcacnnngt agaganaacn cgattnnnta cttnncgata gcgcgcnnnt 960
atactnntta catanatcac tacttnngcg atnatctnaa tacnatacnn tgcggtcagc 1020
cnatntgaac nnctcgaaca ctcngngacn tntnnatntn tcanncatgn atnnnanata 1080
cttgtgtgnt nagcacactt annctgagcg tancngctnt atcgtnacag cnttcgntnt 1140
acacaganca tacnttgntn tancgtatnn acnctatant gcaccntanc nactgatntn 1200
gtatnngnag gtgangntna agnggancnn tnnaanntgn cntancttct cctncngngg 1260
nncgnacnca ncnncntgag agtcnngtnn tgncancttn tatcnaanna ancncnactn 1320
tacgccntga tcnnnngtct cgcngtntnn ntgtatattg ncgatctaaa tanncnntgt 1380
tgcgnntnta taagacnnct gctctnnatg ctctgnntca ctagnncagt ctcnttcnnt 1440
gnacaganng actgctntan ncntacgctc tcgtgtntgn ccctcnnatc cg 1492

<210> 1646
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 1646
ttcanataca nctcttgttc tttttgcagg atcccatcga ttcgaattcg gcacgaggga 60
taccgtatcg acgtggggcc tccggttgct gctaaatggg aaaaacttag cttagtactg 120
atagatgact ttattgaaag tggaactgaa caagtactcc tactttttaa ggactccttg 180
aactcagact gcctgacttc atttaaaata acggatcttg gaaaaataaa ctattcgagt 240
gaaccatcag attgcaatga agatgactta tttgaagaca aacaagagaa tcgttacctg 300
gtggttccac ctctagaaac aggactgaaa agcacatgga agatcttttt gcacttcttg 360
cagcattcca taaatcttgt tttcaaatca catcacccgg ctatgccctg aattcaatga 420
aggtgtggct cttagaacat atgaaatgtg aaataatcaa agaatttcca gaagtgtact 480
tttgtgaaag accgggaagt ttctatggga cactcttcac ttggaaacag agaacaccat 540
tcgaagggat tttaataatc tattccagga atcaaacagt tatgttccag tgccttcata 600
atctcatcag aattcttcct tataaactgt ttcctcaaaa atctaaaatc aggaagtgag 660
aatttcctaa ttgataatat ggcatttact ttggagaagg actagtcacc 710

<210> 1647
<211> 721
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(721)
<223> n = A,T,C or G

<400> 1647
ttcnatcagc tcttgttctt tttgcaggat cccatcgatt cgacctcaaa aaaaatgctg 60
atatcctaaa atattcctag tatcctaaaa tattccataa atcagatatc ctacaaagcc 120
aaactggtcc ttcttgttaa aattaataag attctataag ctgttaacca aaaaagtttc 180
cactaacact gcatacttaa ctctcctaaa taaatttaaa tatgcaaaat gttaattcaa 240
atcaaaataa taataaacac aaccataaag ctagcaatta agattaaaag gtttatgagt 300
gtctattaaa ggataaatgg ataaagaaaa tgtgatatct gtatacaatg gaatactatt 360
cagctataaa aatgaatgaa atcatgtctt tttgtggcaa cgtggatgga actggaagcc 420
attatcttaa gtgaaacagc tcagaaacag aaagtcaaat atgctggaag atcttctctg 480
attactttaa ttttctaagc caggtcattg gcttagtaag aaaggaagct attaggagtt 540
tgaaaagaga ggagagcata taattgtcta gaaagtggga aagtgaatgg actagagaaa 600

tacagtatga tcaccangcc agtgttaang ggctcatttg aggctaaagg gtctgagttn 660
aaaagtggan ggccnggtca gcnttgggtt ttggngcttt tttttcttcc agcccccttt 720
n 721

<210> 1648
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 1648
tacanctctt gttctttttg caggatccca tcgattcgaa ttcggcacga gcgcgacgca 60
cattgatgga gcgtatgtcc aggcgccggt gcaccgcaag gagcaaaaca gacacagttc 120
ttggtcctag ggctcacgtc ccggggcgaa gaggatcctc cataaacgat cagccatagc 180
agctgtgatt ggacaagaga ctgatttcag tgactttctc ctgataagag accaccgacc 240
agctgaccat gccgaccagc tgacccgtta atagagagag atgatgcacc tgcatgcctt 300
tgtgtcctga aaagacgttt tgccataaag gccctaattg taagatgtgt aaatgttaag 360
tctccacccc aaagtgaaca tgggtcatat attacatgct ttgctcaata agagggcatg 420
tgtcaggacc accttcatga atattcatag ctcctnctgt tacctgttga atatgtatgt 480
ttagccaatc ccttcagcat agcgctcctt gccccaaccc ctcctncttg gacgtgcctg 540
tctctggcct tggctggaga cagattccca gcctcagaca gatggccgnc acctttgcag 600
gctacgaacc gtttacaaaa aaataaagcc ttctnttttt tccnnnnnaa annnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ntnnntnnnn nn 712

<210> 1649
<211> 678
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

<400> 1649
ttgnaattca natcagctct tgttcttttt gcaggatccc tcgattcgaa ttcggcacga 60
gggacagcac ttagtagctg tggaggaaga tgcagagtca gaagatgaag aggaggagga 120
tgtgaaactc ttaagtatat ctggaaagcg gtctgcccct ggaggtggta gcaaggttcc 180
acagaaaaaa gtaaaacttg ctgctgatga agatgatgac gatgatgatg aagaggatga 240
tgatgaagat gatgatgatg atgattttga tgatgaggaa gctgaagaaa aagcgccagt 300
gaagaaatct atacgagata ctccagccaa aaatgcacaa aagtcaaatc agaatggaaa 360
agactcaaaa ccatcatcaa caccaagatc aaaaggacaa gaatccttca agaaacagga 420
aaaactccta aaacaccaaa aaggcctagt tcttgtagaa gacattaagc anaaatgcca 480
gcnagtatag aaaaagcgca ttgacagtcc tgggcctcat gtaaattaag cccaaagatg 540
gggagaagga aaaggagaga caaatatagt ccatctgagt gtatcaccat ncagctgagt 600
ttcttttatt natccctttc tgttgcacca tcctttcngt ggaacatntt ggtcctaacc 660
ttntttgntg tnngttca 678

<210> 1650
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

<400> 1650
ttgnaatttc anatacanct acttgttctt tttgcaggat cccatcgatt cgcctgatcc 60
tgccaacagc agttcaggcc agccccacat ggagcaagta cctgaggccc agccccttgg 120
ggacttgccc atcctggaag tggaggagat ggagccccg ccggttatgg agtcctccca 180
gcccgcccag gccaccgccc cgcttgactc tgggtgtgag aagcacttcc tgcccacacc 240
tgaggagctg ggccttctgg ggcccccag gccacaggtt ctggcctgaa ccacacgtct 300
ggctgggggc tgccagccag gctagaggga tgctcatgca ggttgcaccc cagtcctgga 360
ttagccctct tgatggatga agacactgag gactcanaga ggctgagtca cttacctgag 420
gacacccagc caggcagagc tgggattgaa ggacccctat agagaagggc ttggccccca 480
tggggaagac acggatggaa ggtggagcaa aggaaaatac atgaaattga agagtggcaa 540
cttgccttgc aaaatctgtt tccgttgtaa caagaacttg aattttggga cccccaagcc 600
ncaattgggg cttnacgncc ttggtaaatt ccccaaacaa ctttttggc cangggcccc 660
aaangggtng gggaaagggg aatcaacntt taanaaggcc ttttggngaa gttttttggn 720
aaaaaaccaa gcccccttggg gggccaaatt ntttnnccca agggaaaccc ccttttaaat 780
tttccaaaaa aaatttaaaa aacccntttt caaaana 817

<210> 1651
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

<400> 1651
gaaattcana tacanctatt gttctttttg caggatccca tcgattcgaa ttcggcacga 60
ggtgactcca agccccgtc ctgcagcgag aggcccctga cgctcttcca caccgttcag 120
tcaacagaga aacaggaaca aaggaacagc atcatcaact ccagtttgga atctgtctca 180
tcaaatccaa acagcatcct taattccagc agcagcttac agcccaacat gaactccagt 240
gacccagacc tggctgtggt caaacccacc cggcccaact cactcccccc gaatccaagc 300
ccaacttcac ccctctcgcc atcttggccc atgttctcgg cgccatccag ccctatgccc 360
acctcatcca cgtccagcga ctcatccccc gtcaggtctg ttgcagggtt tgtttggttt 420
tctgttgctg ccgttgttct ctcattggct cggtcctctc ttcatgcagt gttcagcctc 480
ctcgtcaact ttgttccctg ccatccaaac ctgcacttgc tttttgacag gccagaagaa 540
gcggtacatg aagactccac acaccgttcc ggaaggcaaa agccttgtat gcctgcaaag 600
cttgaacatg actcaaaact ttcgttcaca gcaggcacgg tcttcgataa tgcagaagtg 660
gtccttcagc ttncaacagc catttttnac tggcacaccg gaancttccg gggcacct 718

<210> 1652
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)
<223> n = A,T,C or G

<400> 1652

canatacagc tcttgttctt tttgcaggat ccctcgattc gaattcggca cgagtcaggc 60
tgggagggac ttcagttngc atggtggggg agaaccagta ccacataccc agtaggtaat 120
aaggtgtcca gcagaggatg aaggtcagca agataagcag ggccagtctc agggcccgga 180
gacgaacacg gggacaattg tcaaaggagc gggggagggc aaattnacca gcaggggcta 240
ggaatttaga aaatatactg taattcagac actcagcttc tgatctgagt atagggtgaa 300
ttgatggagg ggcatagcta gtgagacaga gctcgcctcc tacaaggagg agaatgttgc 360
aaaccgtttt ccccttccca acctgggact atatgatttc ttacccccag ggattatgat 420
agaaatatga agccaccaag tctagacttg atggtgttca agaataaata atactgattg 480
cctccctagt ccttgtccag ctaactcagc tgtttataat tgaagggatt caacaaaatt 540
atctctagca tcaggtgcta gacatggtta gaatctcacc atggtttant gactggtaga 600
tagctattan gtanggtagg ataaaataaa tgatgctaga ggcaacaggt ctanggttaa 660
ggattaaggc cttggaaatt gggaatctca ccatggctcc ccttccttg 709

<210> 1653
<211> 1595
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1595)
<223> n = A,T,C or G

<400> 1653
gntttaaaaa ggaaaaangg atgannagga nggttantnt ncgatnggan gnnntnacgn 60
anaattcgga cnttgtcnng atancgnnnc ntntcgtntg tcacnnnntn atatgatntc 120
tngcgcntgt gaggggtctc nagcntgcgn accnnntgtt actgaganng agancncnca 180
ntagaagagt acgccnatat ctgggngacg gntnccagct gncnnntttt ggnaaaangc 240
ccttcagtgc caanagcntn ttcnatcntn atatnnctac nctcagannn atngncctga 300
nanagngnan nncatnntgg anatgcnntn ggncatatnt gntnntnaga gnanncagtt 360
ngnngncnnn nntggangat nngnttgann tnatnatcag cntnnacctn tntnnnccgt 420
gngaatatnc tngntncngn gnttnagggn ttgcngtncg gnttgcncag gantnttgan 480
nnntncgtnc ncnnntcnnn nangtnctng ncngnntagt gacngantna angaggtcnt 540
nngnntcnnt ntnngnnngn ttnnagnata nngcgcacga nnnnctgtng nngnnnncnc 600
ntnnnntcanc tnncnaaacc ntanactgga tangtantnn cgnannnntn cntntgtata 660
tntntcncng tatnttcgcc ncacatntga gctatnatna tagatcnnnn atcgcanngn 720
ncatatgnac gnatnggagt cngcagctgc acanggagga cacgngtgnt nanagtgnta 780
tatnagagca natgnnacnc nnngannctc acgnaatann atgtggcacn gtagattcat 840
gctanagagc ncgngngcng nacagcntnn atgatannag nttgtnagcg atcnatnnan 900
ttngatncac annnnctnnn tcgttntnnn ncncagttnc acgcgtgagc anagtagagn 960
acnttgnann ncgaatgnnt nctgtatcgc acgnncttgc gtacacantn tnnanacgng 1020
cnattatntg cgnnccncgc tgcncgcgct nacnnctnan atcgcntttg acgcnnagta 1080
tgattgnatg gcgntgcncg tgnnanncgn atnntggacg natntgtgnc gttntncgcn 1140
cannnncgnt ctntggnntt agaganacgt gtntcactgn ntagnagagg ncgnttgnna 1200
cggtnacagt ntctgngata gantgaanga gtagatgcan cnganaaggg tgtcnctagt 1260
ncacgcgnnt nacntcnntt gtngaatgac ntcatctnga tatggcncgg ngccgatatg 1320
actnactcgc tacangtgtc tngatttncg nntgacgagn ntcgcgngag cntactcant 1380
gnctntatgg ngcgnncgna tatnnctatn nnttgntagt cngtccatca ntntncaanc 1440
gattagtcgn cacgntnncc gcattacgat gatgaccnna cgataggnat ngctctnngt 1500
ctnatcncac antnanganc tattnnatna gaancatgnn aannnttggt actatcgnat 1560
angtctnnan ctatnaaggt tatcgaacac nagcg 1595

<210> 1654
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 1654
tttcanatac anctcttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggt 60
caccaacttg aaaccagcaa ccatcaaggt ctatgactac tacctaccag atgaacaggc 120
aacaattcag tattctgatc cctgtgaatg aggataggag ctggaaactc aattagtcct 180
ctgtgacatt actggagggt ggaacattct tctgtcgctt gaagcagaac tcattcaatc 240
aaataattta atttctctga ctagtatatg ggtaacaaat gaatatgtct gaacctcagc 300
tataatactt tctactacct ttgcaaggag atgggatagg aacaatcact cagaggaggc 360
gttgcatgga cagggtcatt agggggaaga aaggngggtt aactggttta tttaaccatt 420
caggggggctc tncaaanang anaccgtggt aganggtgac tanaaaagat aagaatgtct 480
ttcttagggc cggttgccgg tngctcaccc ctggtaattc ccancacttt tgggaattgc 540
naagggtggg ccggaatcan tttganggtc aagggagttt caaaanaacc aagccttgcc 600
caaacaattg ggaaaaaacc cccgtctttt ttcttaaccc aatttccaaa aaaattttnc 660
cccttggtgg ttgggtnggc aaccggggcc ctnttaattc ccaacccccc tttgggaaan 720
gggccnaagg caagggaaaa aatccncctt tnaacacttg gaagggtgga agggtt 776

<210> 1655
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 1655
gnnnnttnnt ttgattgntc tngctcttgt tctttntgca ggatcccatc gattcgaatt 60
cggcacgagg tcaccaactt gaaaccagca accatcaagg tctatgacta ctacctacca 120
gatgaacagg caacaattca gtattctgat ccctgtgaat gaggatagga gctggaaact 180
caattagtcc tctgtgacat tactggaggg tggaacattc ttctgtcgct tgaagcagaa 240
ctcattcaat caaataattt aatttctctg actagtatat gggtaacaaa tgaatatgtc 300
tgaacctcag ctataatact ttctactacc tttgcaagga gatgggatag gaacaatcac 360
tcagaggagg cgttgcatgg acagggtcat agggggaaga aaggtggttt agctgtttta 420
tttagccatt caggggggctc tccagagagg agacggtggt agagggtgaa ctagagaaga 480
taagaatgtc ttcctaggcc ggatgcggtg gctcacgcct gtaatcccag cactttggga 540
ttgcgaggtg ggcggatcac ttgaggtcag gagttcaaga ccagcctggc caacatggta 600
aaacccgtct ctactaacaa tacaaaaatt agcctggtgt ggtggcacgg gcctgtaatc 660
gcaacccctt ggaaggccaa ggcaggagaa tcgcctnaac actggaggtg gangttgcag 720
tgaacctgag aatgngccac tgnacttcan cctgggcaat gg 762

<210> 1656
<211> 703
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(703)
<223> n = A,T,C or G

<400> 1656

ttcanataca nctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggt 60
tggcttcccc gggagaggag tatgaggatt aaaaatattc agaaacaaac aaaagaacac 120
aaaaatgcaa acacatggta gggaattact actgcttatt ctcaacagta ccacagaacc 180
agtgtttgag tgctggcacc atatgcaaca tggggcatcc gggctggagt gatccagttt 240
tttagttggt ggtggcgatg atttttcttt ccttttggtt tataattttc tgttcatttt 300
tccccctttc tcccccacat tcattaagaa ccctactgaa accctaggtg acaaaaggtg 360
tgccttctgt tgccacattt gacccaccac aggactcact ggactggact tctatttata 420
ttgtattaag taactgatat atatatatat atatatatat atatattttt gattgacacc 480
aaaaaattac cttggcacaa atgccagacc tgtgaaggtc agaggcccgc tgcttctccc 540
aggagggagg gaacttttg gntgtctgtg gcaattcctc tgtacagatt gtaacttttt 600
aaaaatttcc cttcaccccg tcacttgaat atatgttcat agtaaatttg taaganactt 660
cttttcctta ttttggtgca agaaccttcc gacacattct gtt 703

<210> 1657
<211> 858
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(858)
<223> n = A,T,C or G

<400> 1657
atncanatac aactacttgt tctttttgca ggnatcccat cgattcggct cagtgctggc 60
atgttgacct ggtgttgtca gtgagtctgt ggatccaggg tcagtgctgg tatgtttagc 120
tgacattggc agtgagtcca tggatccagg ctcagtgctg gtatgttgac ctggtgttgt 180
cagtgagtct gtggatccag gctcagtgct ggtatgttga cctagcattg gcactgagtc 240
tgtggattca ggctcagttg ctggtatgtt gacctgacat tagcagtgag tctgtggatc 300
caggctcagt ttcacagagg tttgtataaa catggtctca ggtgggttct tgacacctgg 360
gtttcaagca caaaagtact ggctgggctt gttaggtgaa gtggggtggg gtctaccacn 420
atgaatnnca taattctgaa ggctttgcca ancccctnggg gaaaggtggg gttcaaaaca 480
caaggttgaa naaccctttc cgntgggtta ggggtccaag ancaccaaat taagggtgaa 540
nttaagtggt tgnggccttc tttattattc naaagggggn aaaaggcccn gtaattncaa 600
tttgggtaaa gggtgggttt nggtcaaccc ntggggggnt tcttggccct tggggttggn 660
atngtctctt naagggggaa aacccccctt anaaaggaat tccangcctt nnggggnacc 720
aaggggtaaa tccttngttc cctcaagnca accnccttgg gttccnaggg tctntngant 780
aagaaccang aaacttccag gggttnaaat aacaaaaagg gggcttntaa nggaatcttg 840
gttnaacccc aagncccct 858

<210> 1658
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(704)
<223> n = A,T,C or G

<400> 1658
ttgaatcccn natacaagct cttgttcttt ttgcaggatc cctcgattcg caccactctt 60
gtgcagtcat cctaaatata ggttcagagc atctcctgtg aatgacatat tttgtcaatc 120
actgccagga tctccattta agcccctcac cctgaggcag ctggagcagc aggaagaaat 180
actaagggtg ccttttagga gaaataaaga gggtgtcggt tggtggaaat atgaattctg 240
ctatggcaaa catgtacatc aataccatga ggacaaggat agtgggaaaa cctctgtggt 300

```
tgtcgggaca tggaaccaag aagagcatat tgaatgggct aagaagaata ctgctagagc     360
ttatcatctt caagacgatg gtacccagac agtcaggatg gtgtcacatt tttatggaaa     420
tggagatatt tgtgatataa ctgacaaacc aagacaggtg actgtaaaac taaagtgcaa     480
agaatcagat tcacctcatg ctggtactgt atatatgcta gagcctcact cctgtcaata     540
tattcttggg gttgaatctc cagtgatctg taaaatctta gatcnagcca gattgaaaat     600
gggctttctt tctcttcccc aactaaaagg atattaaagt tagggggaaa gaaaaaanca     660
tttgaagtca tgattaattt ctgtcccact gngtctcatn ataa                      704
```

<210> 1659
<211> 700
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(700)
<223> n = A,T,C or G

<400> 1659

```
ttgnantccc natacaagct acttgttctt tttgcaggat cccatcgatt cgcagaaatc      60
agcatgcatg aattaatcga aatacaatgc atattaaaca atgcaattac tatagtctaa     120
atcaccaaac tgataaccca tacaaaagta gctcttacaa cttttttga gaatatttcc      180
cctaaaaaat tccagtgatc atcccaacct acaaaactag attattttac tagtatcatc     240
ttctctttac ccctcttctc cccaccaaca ctccctccaa cacacacaca cttctcctta     300
agagaaacgg cttcctcaag aaattatctg atggttcagt agcagttgga gttttacaca     360
aactatgttg tgattgggca aggcagacta ccagatctgg gattcagtag accattcctt     420
actgtcagat tatcttctaa gtgactgctc ttagagaaac aacacagatt tgcctcaaga     480
gattacaaat gtggtaggcc taccttaaca gcaactagtt tttttaaga aacacggtcg      540
cactgtcgcc caggcaggaa cacaatggca tgattatgct cactgcacct caaactncta     600
agttcaagtg atccttctgc ctcagctnct ggaatagctc aaactatagg catatgccac     660
catacccaag ctaggttttt cggtttttg gtttttaaa                             700
```

<210> 1660
<211> 697
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(697)
<223> n = A,T,C or G

<400> 1660

```
gaattcanat acaagctact tgttcttttt gcaggatccc atcgattcga attcggcacg      60
agaaaagaaa acgagaccaa gtaataaagc agaaggaaga agaagcacag aagaagaaat     120
ctgacttgga aatagagcta ttaaaacggc agcagaagtt ggagcagctt gaacttgaga     180
agcagaaatt gcaagaagag caagaaaatg cccccgagtt tgtgaaggtg aaaggcaatc     240
tcaggagaac aggccaagaa gtcgcccaag cccaggagtc ctaggctgag gctgcaccaa     300
gacctcgtgt gtcaccccac agagctgtct gtgggtgcct tctcaatctc agggcaaaag     360
cccctggaga atattccagc cagcagagaa ttttgacttg cagtaggatt tggtttgatt     420
ttcctacgat ctgggtggat gccttgcctg tgacagttgc agttcctatt cgccaaatga     480
agggcagtgc cccgcacgta agttggaatg atggacctgt gttcagagac ttaacagacc     540
aacaagcaaa acaagtgaga acaggaaaaa ggaagangac actggaatca attcttgaga     600
gttgcactac ttggtttttc ttccattcca agtttcgtgg gacccaganc ctttttttctt     660
ttaaaagcta aaaaaacaag tgtttaattc ctctttt                              697
```